

## **CH-Consulting**

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## **The Company:**

The company CH Consulting was founded in 2009 and is working with Prof. Martin Kienbaum, Bayreuth and the engineering firm Fischer, Helmbrechts together. The aim is that of Prof. Kienbaum developed application software "WeaveStruct" - the world's professional software for product development of technical fabrics to establish.

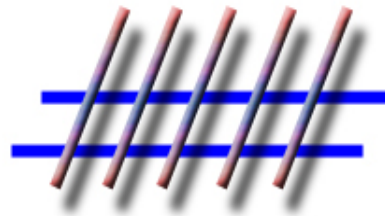
## **The Product:**

**WeaveStruct** with **Optex modules** has been developed for product development and optimization of technical fabrics. It is possible to calculate and represent weaving structures, which consist single or multiple warp and weft thread systems. The possible thread density, weaving-in, surface structure, effects of tensile forces and the sliding behavior of technical fabrics are calculated and presented. The load of the warp and weft for all weft insertion systems is calculated. CalcMaster, the integrated tool for cost calculation.

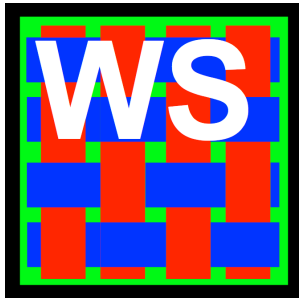
**WeaveStruct** is a tool that opens new dimensions in product development.

## **Searches:**

Databases for product development, limit settings, fabric structures, weaving constructions, process planning for product development; Warp-/Weft load; Fabric simulation;

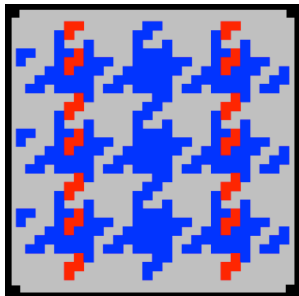


## Product Information:



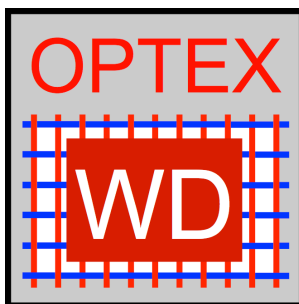
### ***WeaveStruct***

Software for the weaving product development. It can be represented Fabric structures and calculate which consist of single or multi-layer warp and weft thread systems.



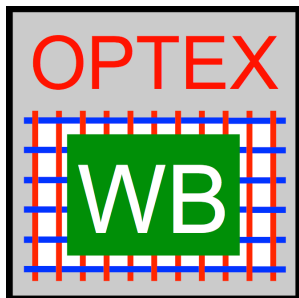
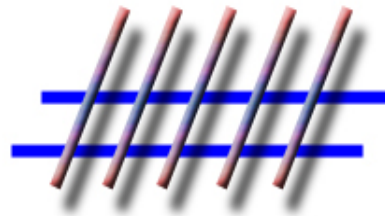
### ***WeaveMaster***

CAD software for designing and weaving product development. For designers and practitioners with a good image simulation and machine control system.



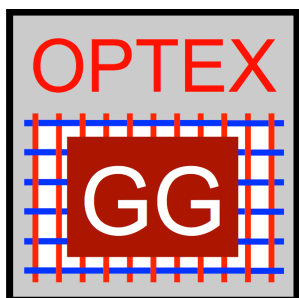
### ***opTex-Weave densities***

Already during the weaving product development the most accurate weaving density calculation is based on.



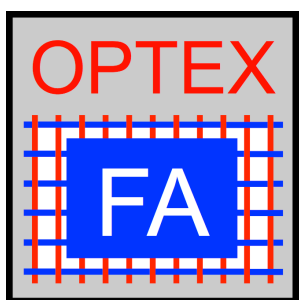
## ***opTex-Weaving tension***

Displays at the weaving product development and optimize which loads the warp and weft yarns in the processing subject to.



## ***opTex-Shed geometrie***

During the design of technical fabrics, the main focus on surfaces and height structure oriented to indicate the relative weave density.



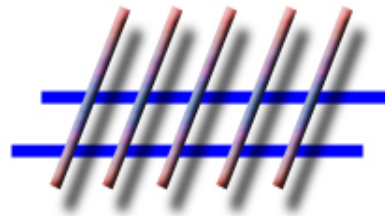
## ***opTex-Fiber substrate content***

Calculations of the used fibers, blends, yarn counts and thread settings are found in the untreated fabric.



## ***CalcMaster***

Simultaneously with the Fabric product development is carried out cost calculations. Minor changes in the specifications are immediately shown.



**F1 Tab1 Fachgeometrie Berechnung**

Lage	Garnheit	Faserstoff	Faserdichte	Flächengewicht g/m²
1	0,14 mm	100PE	100PE	
2	0,13 mm	100PE	100PE	

**F1 Tab4 Kettbelastung**

Parameter	Value
Wv-1'	12,2
H-1 mm	63,1
Lv-1 mm	295,2
LF mm	1582
mm	643
mm	2225
TV-1	0,19
	28

**Eingeliesene Transfer-Daten von WeaveStruct - Eigenschaften**

Garn-ID	tex	max cN	CV	max D
Garn 1	Hu 0,3 mm	64,3	2191,7	10
Garn 2	Hu 0,2 mm	28,6	974,0	10
Garn 3				