

Software solutions for the braiding world

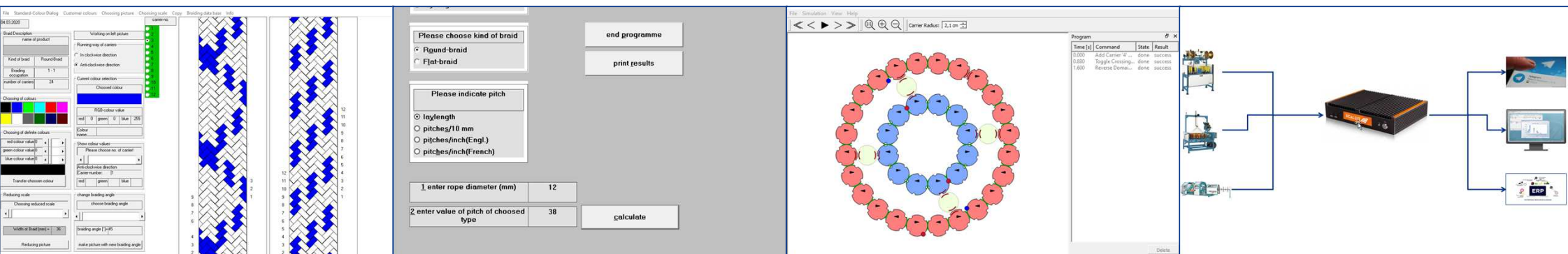


The textile industry – although it is one of the oldest industries in human history - has always been a leader in innovation. The same applies for the braiding world and Herzog.
To help you stay at the top, we support you with various software solutions.

Standard and custom-made software solutions

The Herzog software family **Computer Aided Braiding** offers solutions for various tasks in your braiding business.

If you would like to take a closer look at your braiding process, we offer individual solutions for process data acquisition.



The Herzog software family Computer Aided Braiding

Under Computer Aided Braiding we offer three software programs



CAB Calculation

All the calculations you need
for rope design and machine
operation



CAB Design

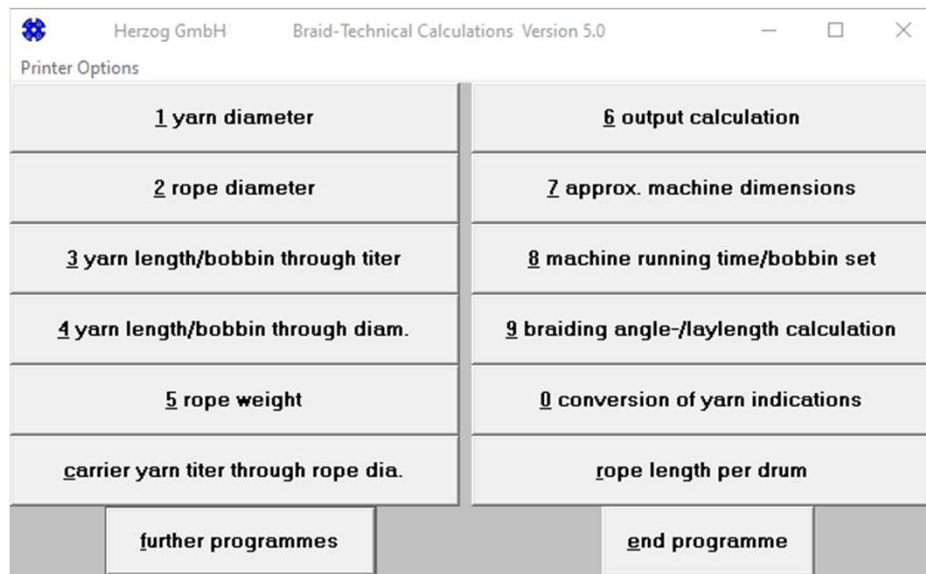
Simply prepare images of all
types of different rope designs
Design your braid with a vast
choice of colors



CAB Soft

Simulation of carrier paths on
advanced braiding machines

CAB Calculation



CAB Calculation offers all necessary calculation tools for running a braiding production.

- Conversions between yarn value counts and lay length definitions
- Calculations around different yarn types to determine titers based on geometries or geometries based on titers
- Possible braid production based on sizes and machine models

CAB Calculation

Choosing size of bobbin for core

☐ AFD 120
☐ AFD 140
☒ AFD 160
☐ AFD 180
☐ AFD 210
☐ AFD 224L
☐ AFD 266L
☐ AFD 336

☐ AFZ 432
☐ AFZ 528
☐ AFZ 660
☐ AFZ 720
☐ AFZ 1088
☐ AFZ 1500
☐ AFZ 2000

☐ Special bobbin

D _a =	87
D _i =	26
WL=	320

Choosing size of bobbin for cover

☐ AFD 120
☐ AFD 140
☒ AFD 160
☐ AFD 180
☐ AFD 210
☐ AFD 224L
☐ AFD 266L
☐ AFD 336

☐ AFZ 432
☐ AFZ 528
☐ AFZ 660
☐ AFZ 720
☐ AFZ 1088
☐ AFZ 1500
☐ AFZ 2000

☐ Special bobbin

D _a =	78
D _i =	24
WL=	280

Choosing material core

☒ PA
☐ PP
☐ PES
☐ PE
☐ Dyneema
☐ Aramid
☐ Bw
☐ Vectran
☐ other density

☐ Rho_S= 1.14

Choosing material cover

☒ PA
☐ PP
☐ PES
☐ PE
☐ Dyneema
☐ Aramid
☐ Bw
☐ Vectran
☐ other density

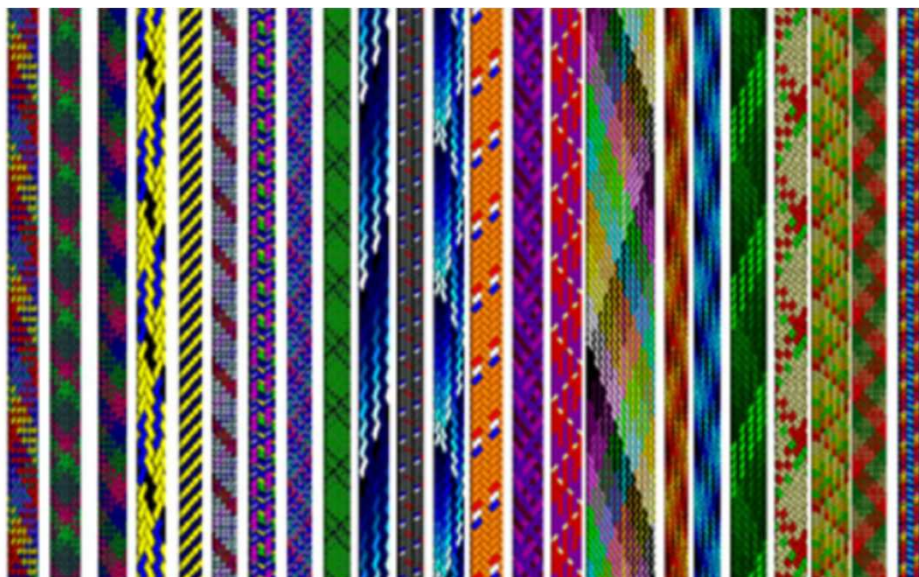
☐ Rho_M= 1.14

Input field		Result field	
Input outer diameter (mm)	16	core diameter (mm)	11,3
Input percentage core (%)	50	strand diameter core(mm)	,9
percentage cover (%)	50	strand diameter cover(mm)	,8
Input braiding angle core (°)	55	strand core in tex	647
Input braiding angle cover (°)	45	strand cover in tex	591
Input number of bobbin core	24	Meter/bobbin core	576,6
Input number of ends / bobbin (core)	4	Meter/bobbin cover	906,5
Input number of bobbin cover	48	Meter braid core	472,3
Input number of ends / bobbin (cover)	2	Meter braid cover	641,
horn gear revolution core braider(rpm)	200	reduction core (%)	22,1
horn gear revolution cover braider(rpm)	235	reduction cover (%)	41,4
filling grade of rope(%)	70		

CAB Calculation offers many functions

- Production output and runtimes of machines
- Productivity of different bobbin winders in combination with braiding machines
- Detailed calculations on core cover ropes
- Hose and preform cover calculation

CAB Design



It used to be a lot of work to make a rope sample for your customer

- Making braid samples for customers is a labor-intensive and costly business
- Getting short amounts of yarn with the correct color or dye it yourself
- Setting up the machine to braid a short piece
- Sending the sample to the customer only to learn that he wants it just a little bit different

With CAB Design you can create any kind of braid design simply on your computer

CAB Design

Braid Description

name of product
Ru_40_22

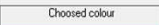
Kind of braid: Round Braid

Braiding occupation: 2 - 2

number of carriers: 40

Working on left picture

Running way of carriers:
☐ In clockwise direction
☒ Anti-clockwise direction

Current colour selection:
 Chooosed colour: 

RGB colour value:
 red 255 green 128 blue 64

Colour input:

Show colour values:
 Please choose no. of carrier:

Anti-clockwise direction
 Carrier-number: 11

red green blue

Choosing of colours

red colour value: 0
 green colour value: 0
 blue colour value: 0

Transfer choosen colour

Reducing scale

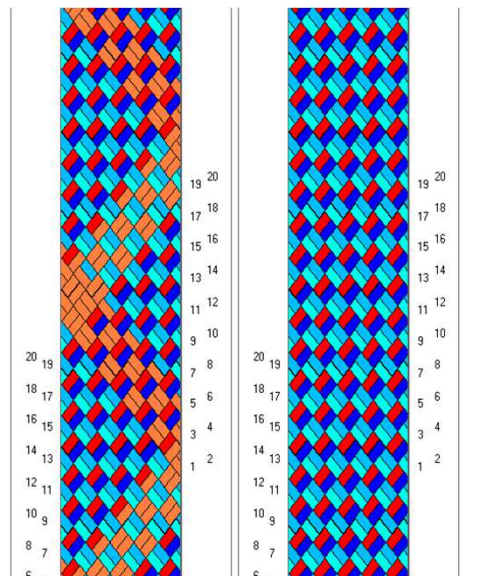
Choosing reduced scale:

Width of Braid (mm) = 36

change braiding angle

choose braiding angle:

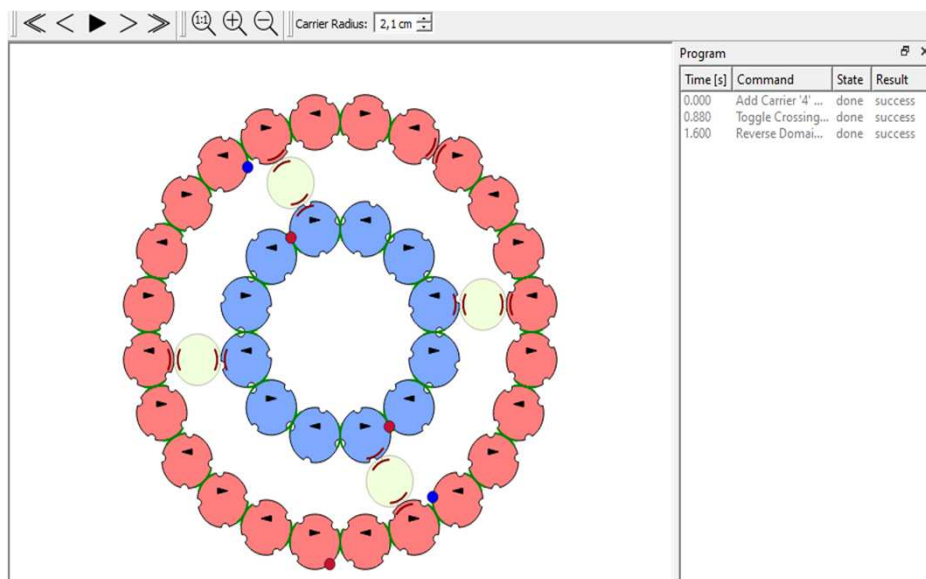
braiding angle [°] = 50



CAB Design offers many functions

- Round braids
- Flat / Lace braids
- One over two constructions
- Tandem constructions
- Half occupied constructions
- Variable braiding angles
- Standard and customer color database
- Cut and copy your images into all regular office programs

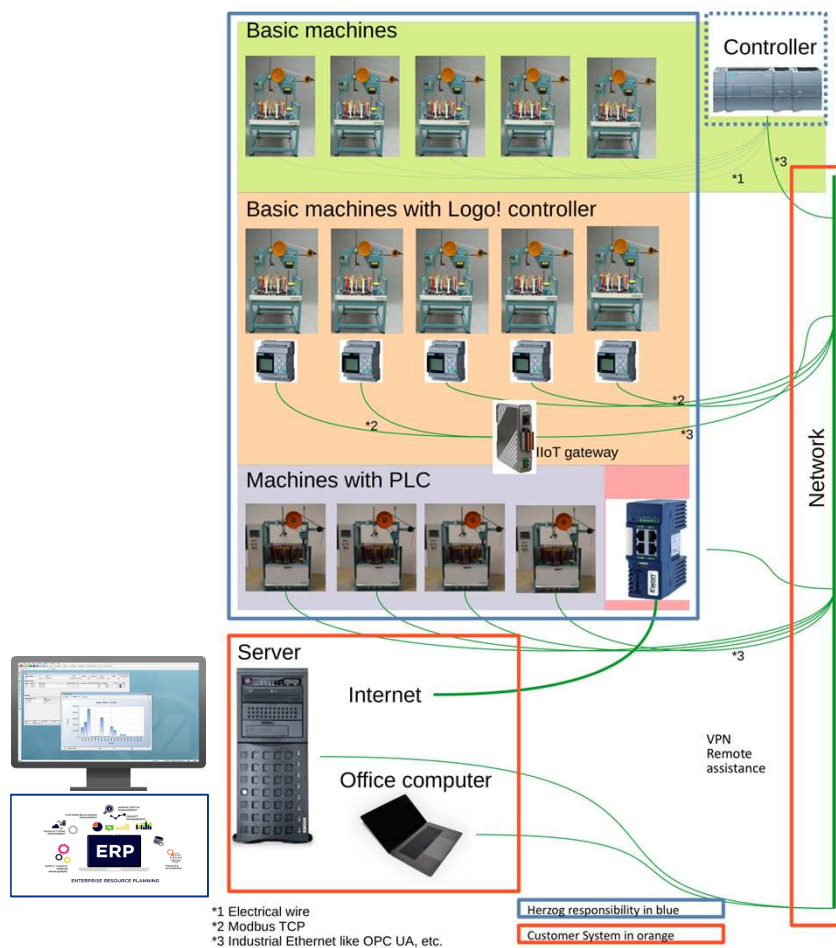
CAB Soft



CAB Soft helps to create and simulate step sequences for all advanced Herzog braiding machines

- Placing, deleting and color changing of carriers
- Switching of crossings
- Enabling, disabling and direction change of horn gear domains
- Anti-collision testing

MDA - Machine data acquisition



Machine data acquisition is becoming increasingly important for production in the modern digital world.

HERZOG can support you on your way to Industry 4.0:

- Machines are basic braiding machines without PLC, PLC based braiding machines, semi-automatic winding machines without PLC, PLC based winding machines and additional machines around the braiding process.
- To get basic machines connected to the internet we offer additional PLC / controller
- Systems for storing data in a database and analyzing the data are not part of our scope of supply and should be implemented by your local or external software provider/consultant



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