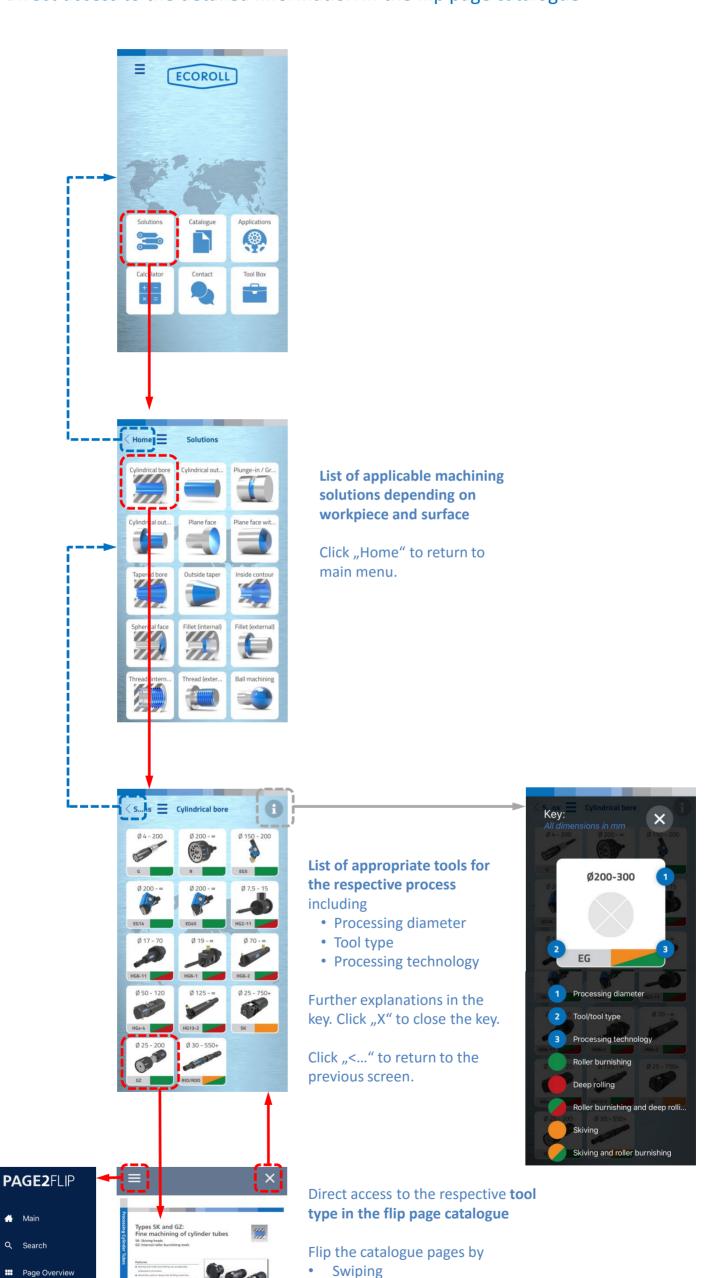


Module - Solutions

Bookmarks

- Applications for ECOROLL tools depending on the machining task
- Overview over technologies and tool types
- Direct access to the detailed information in the flip page catalogue



Clicking on the arrows on the

• Page2Flip menu (click the bars in

the upper left corner)

Click "X" to quit the catalogue.

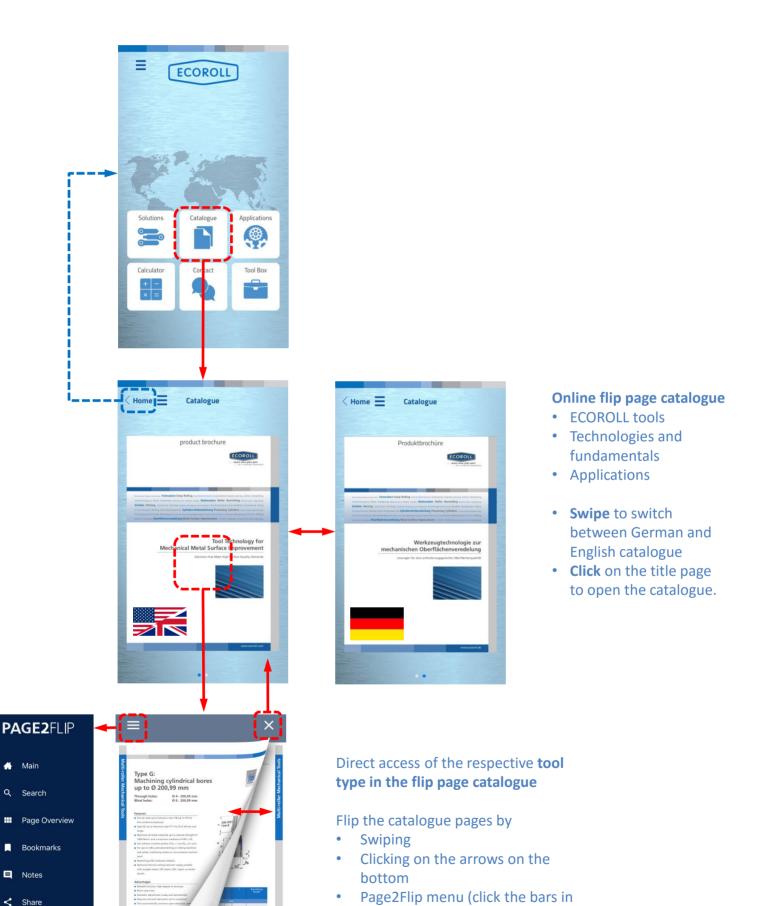
bottom



Module - Catalogue

< Share

Direct access to the detailed information in the flip page catalogue.



the upper left corner)

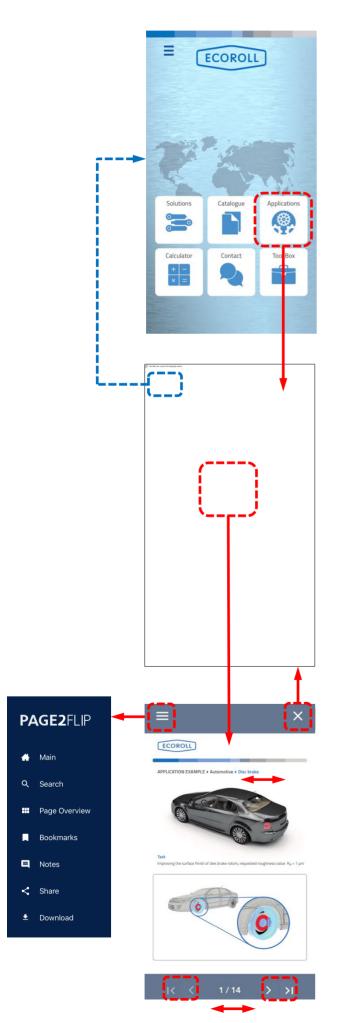
title page.

Click "X" to return to the catalogue



Module - Applications

Fields of application for ECOROLL tools showing real life examples



List of different fields of application for ECOROLL tools

- Target industry
- · Processed workpiece
- ECOROLL tool
- Processing parameters

Click "Home" to return to the main menu.

Flip the brochure pages by

- Swiping
- Clicking on the arrows on the hottom
- Page2Flip menu (click the bars in the upper left corner)

Click "X" to quit the brochure.

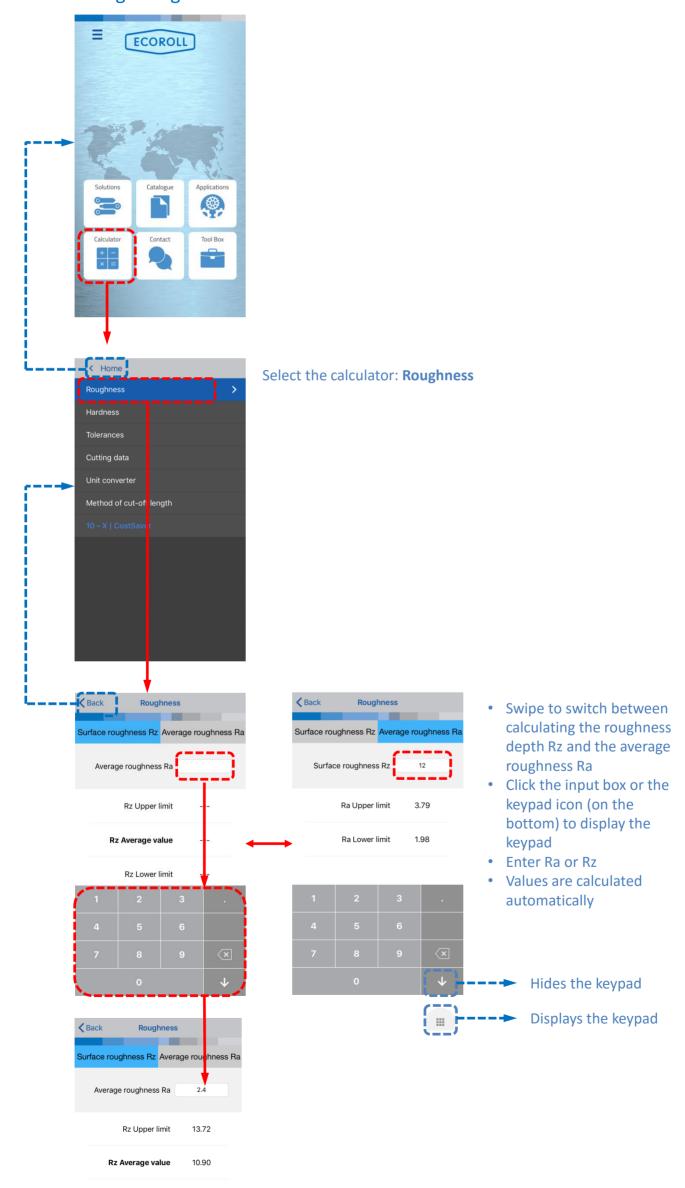


Module - Calculator: Roughness

Rz Lower limit

8.09

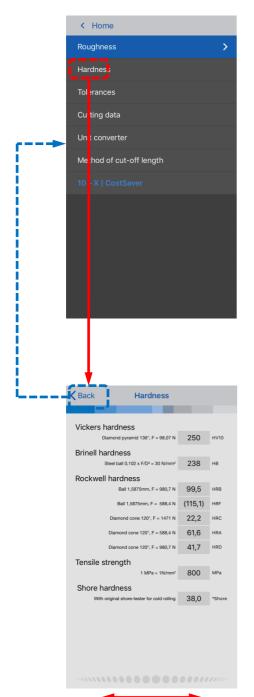
- The calculators provide important parameters for roller burnishing and deep rolling processes.
- The calculator for roughness facilitates comparisons between roughness depth Rz and average roughness Ra.





Module – Calculator: Hardness

Converts different material characteristics: Hardness according to Vickers, Brinell, Rockwell, Shore and tensile strength

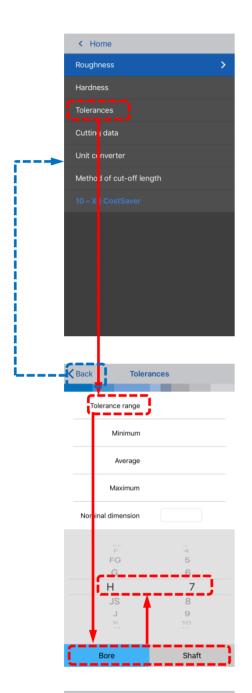


Swipe (right/left) to show different sets of values



Module – <u>Calculator: Tolerances</u>

Calculates manufacturing tolerances according to the nominal dimensions of a workpiece and the tolerance range for bore/shaft.



- Select the tolerance range:
 - Bore or shaft
 - Fit

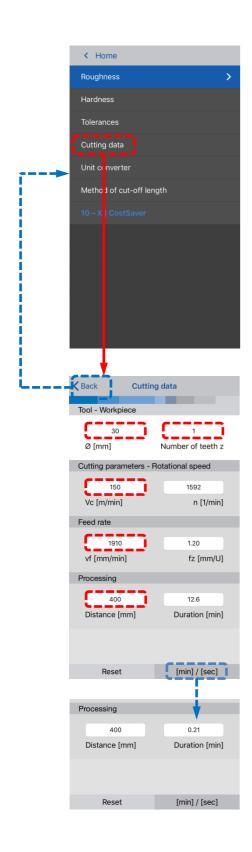


 Enter the nominal dimension of the workpiece (Click in the input box to display the keypad)



Module – Calculator: Cutting data

Aid to determine the optimal processing parameters

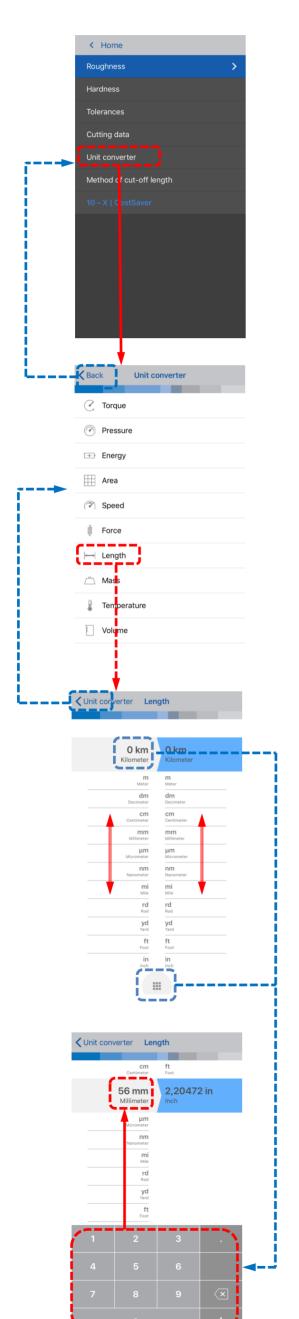


- Fill in the fields marked in red:
 - Workpiece diameter [mm]
 - Number of teeth/cutters z
 - Cutting velocity vc [m/min]
 - Feed rate vf [mm/min]
 - Distance processed [mm]
- Click "Reset" to clear the form and start a new calculation.
- These values are automatically calculated:
 - Rotary speed [1/min]
 - Feed per tooth [mm/rev]
 - Processing time [min] or [sec]
- Click "[min]/[sec]" to switch between processing time in minutes or seconds.



Module – Calculator: Unit converter

Converts different units



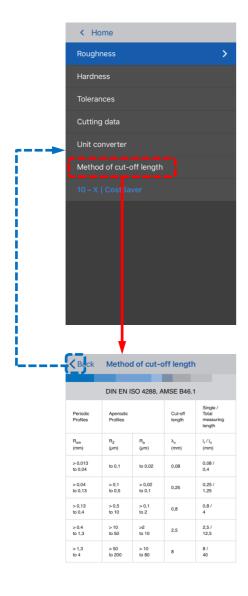
Click to select the quantity to be converted.

- Swipe up and down to scroll through the available units
- Click the input box or the keypad icon to display the keypad.
- Enter the numeric value in column 1.
- The result of the conversion is displayed in column 2.



Module – Calculator: Cut-off length

Select the cut-off (wave)length for roughness measurement.



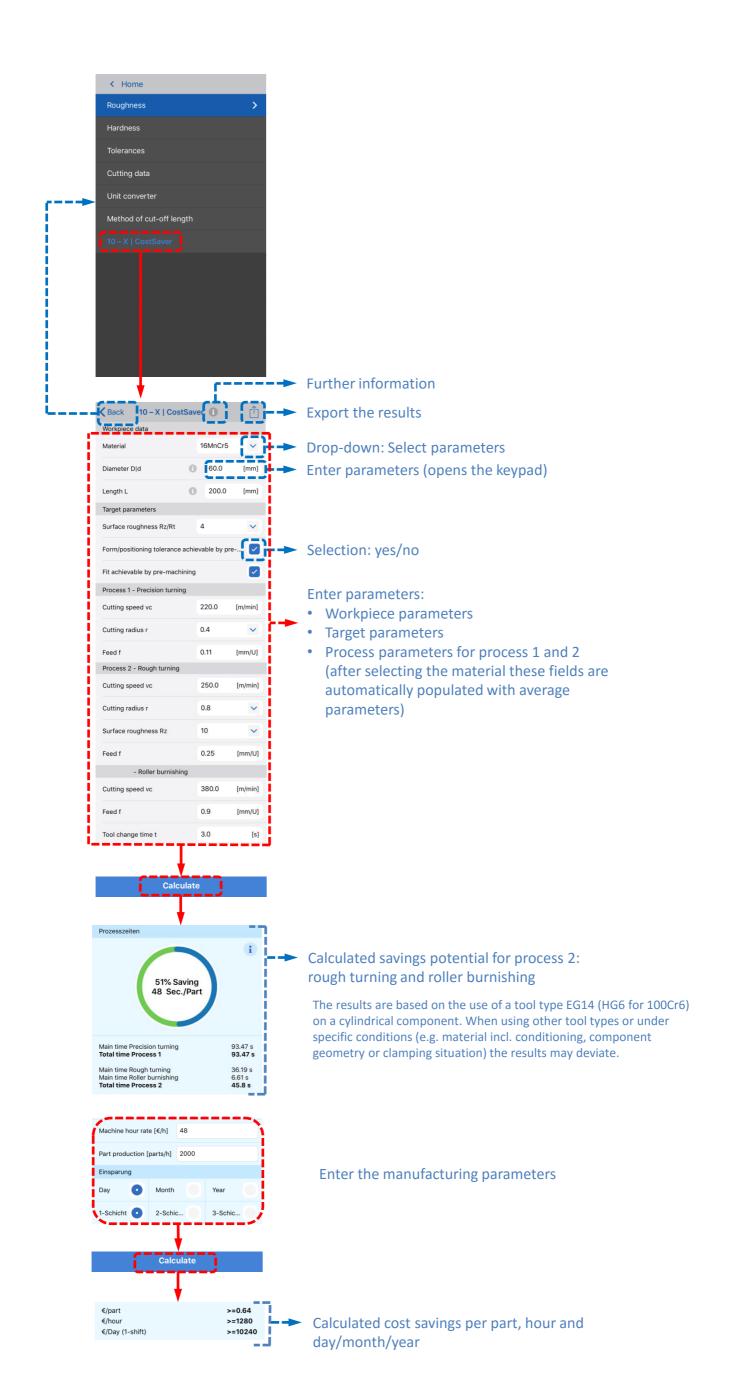
Select the cut-off length λc (table) depending on the roughness profile and the measuring length.



Module - Calculator: 10-X | CostSaver

The CostSaver enables the economic comparison of two turning processes. The calculator compares

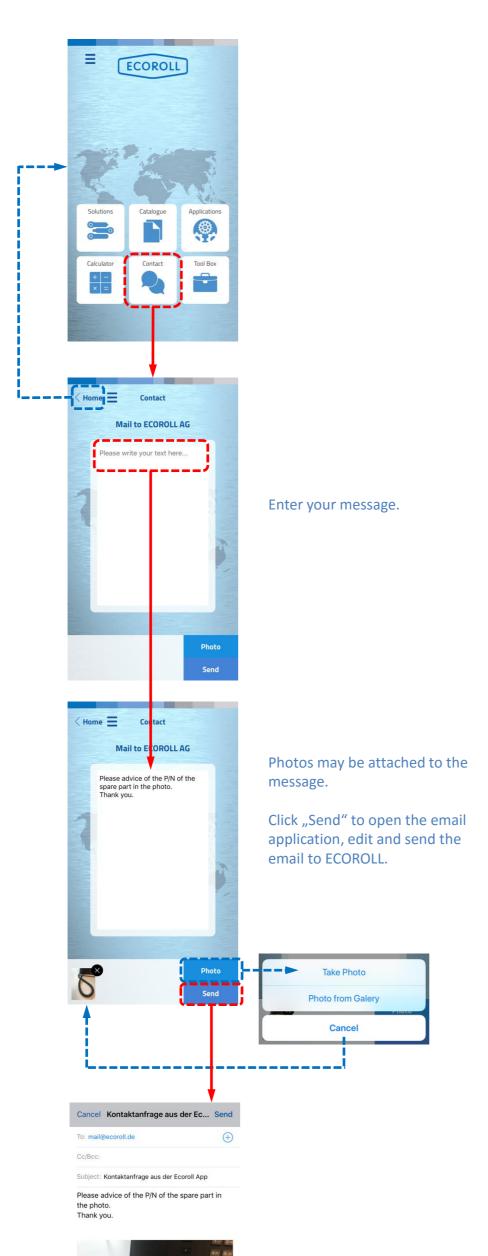
- Process 1: Precision turning
- Process 2: Rough turning and subsequent roller burnishing





Module - Contact

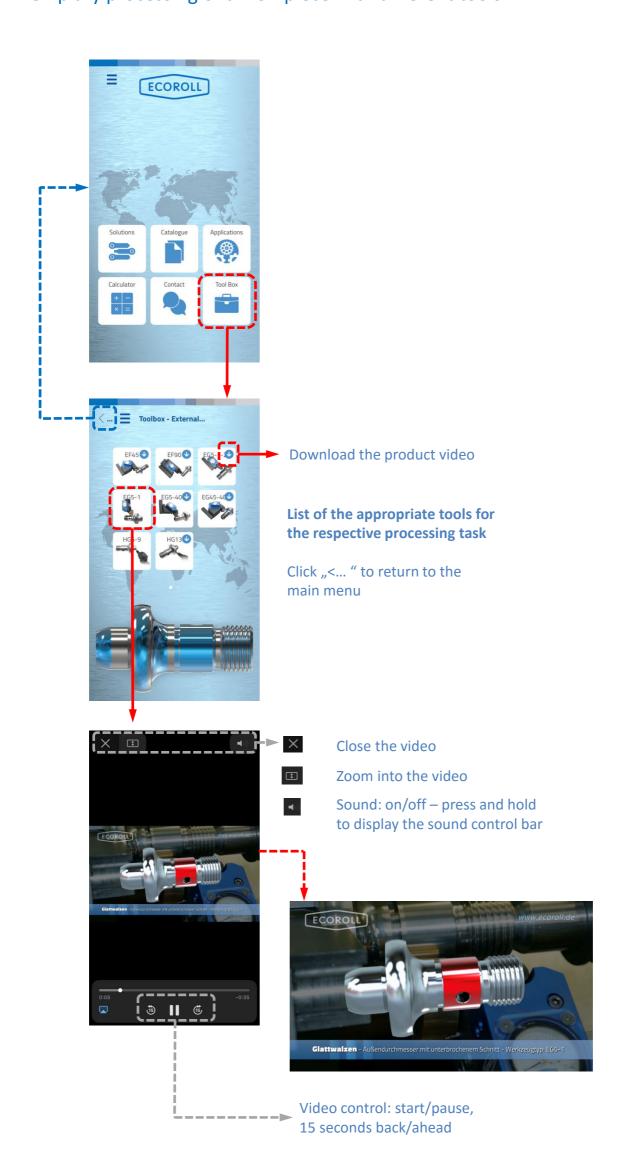
Contact form for email messages to ECOROLL





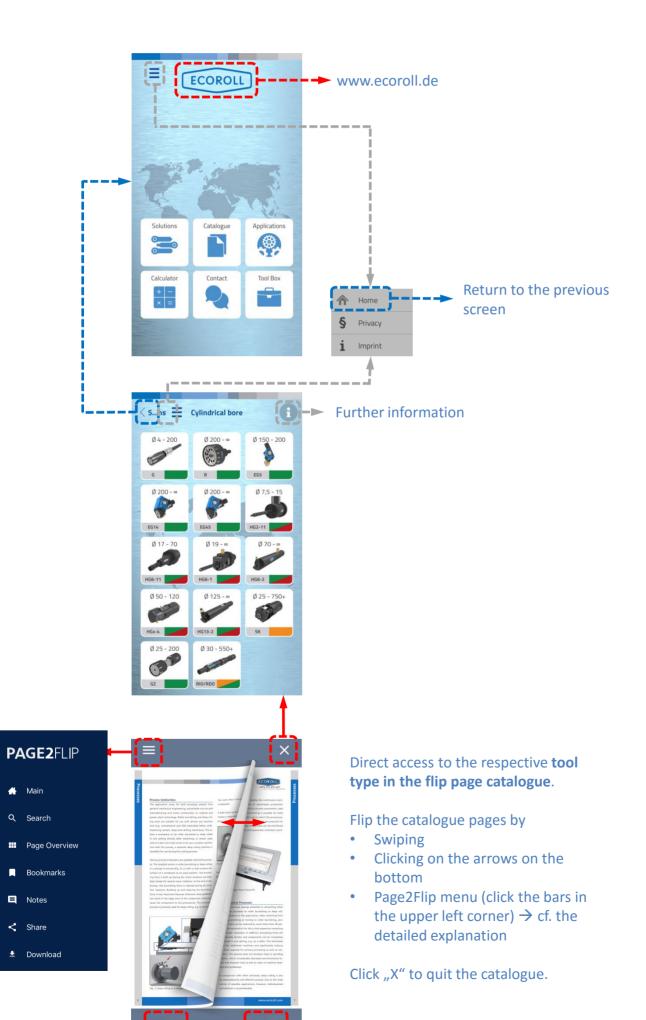
Module – <u>Tool Box</u>

Exemplary processing of a workpiece with different tools





Explanation of some basic functions

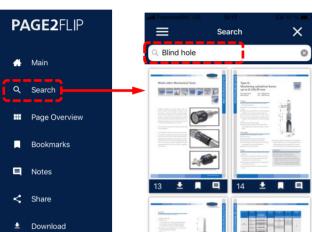




Explanation of the Page2Flip Menu

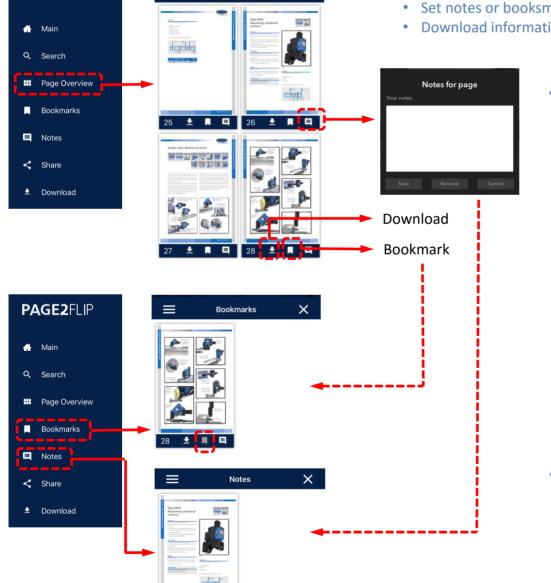


• "Main" closes the Page2Flip menu



PAGE2FLIP

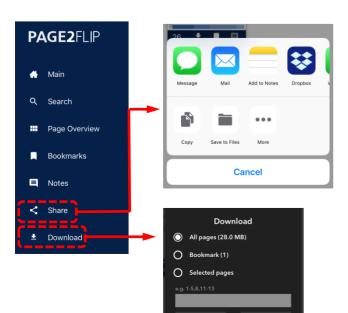
- Full text search for key words
- Relevant pages are displayed in miniature style



Page Overview

- Page overview
- Set notes or booksmarks
- Download information (see below)
 - Notes: enter, save, delete or cancel





± ■ □

- "Share": share information or save it on the device (depending on device settings)
- Download
 - the entire catalogue
 - all bookmarked pages
 - selected pages



Correct language settings for iOS devices

If an iOS device is set to any language other than English, make sure that English (UK) is second in the list "Preferred language order". This will ensure proper language display within the ECOROLL app.

