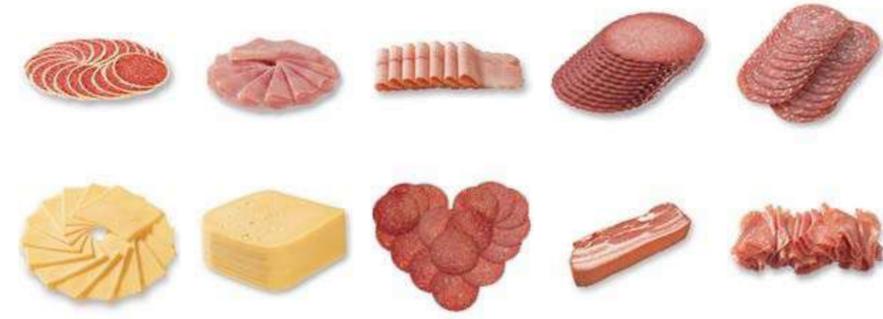
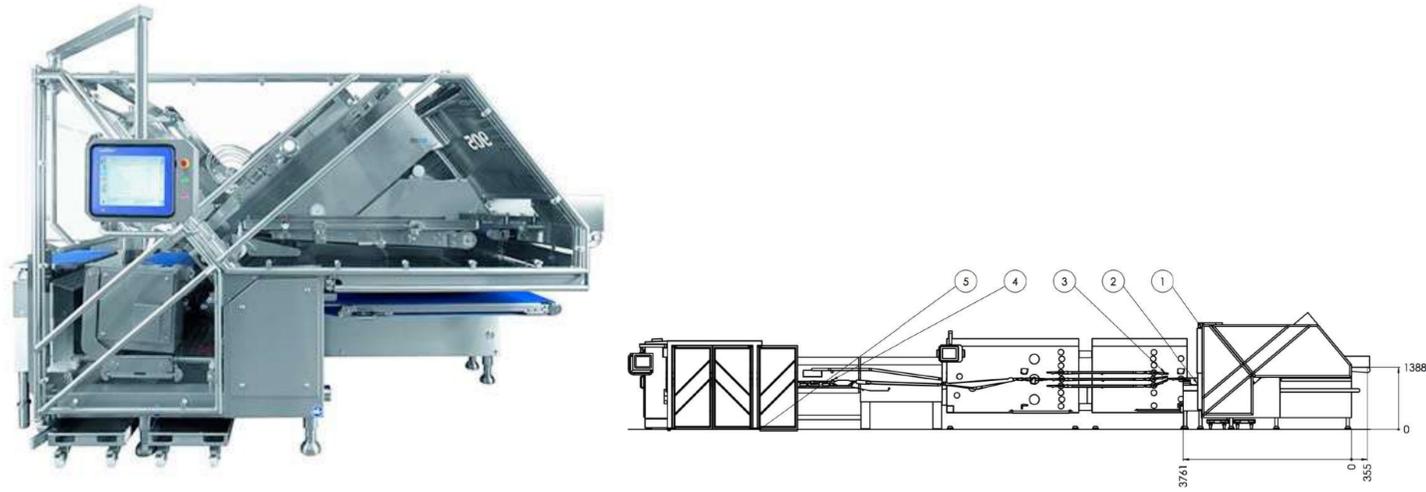




Weber Power Control

Touch-optimised user interface design for high-performance slicing machines.



Portion Variations



Portion transport to format and packaging



Single machine with old touch panel



Machine line with new touch panel



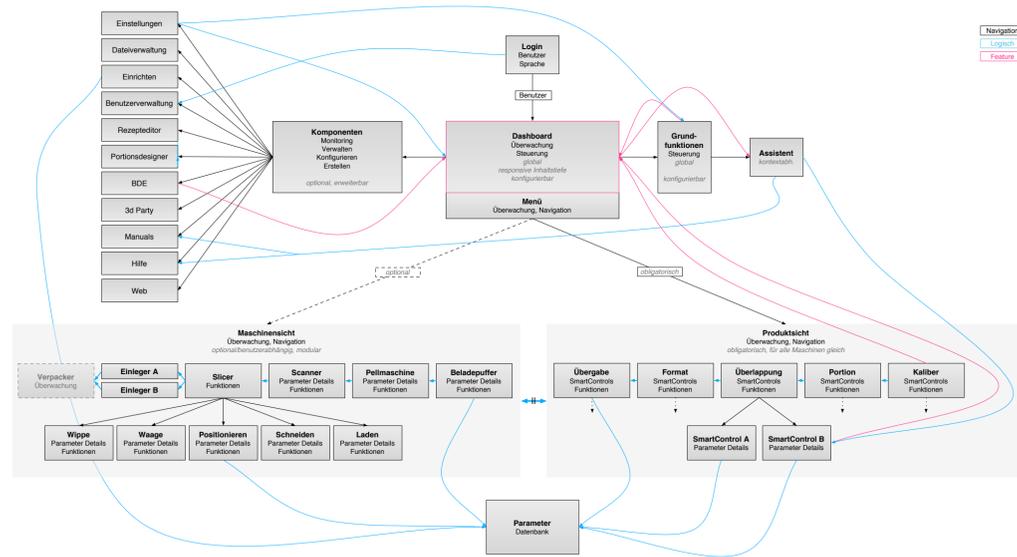
High speed slicing in progress

Weber Slicing Machines

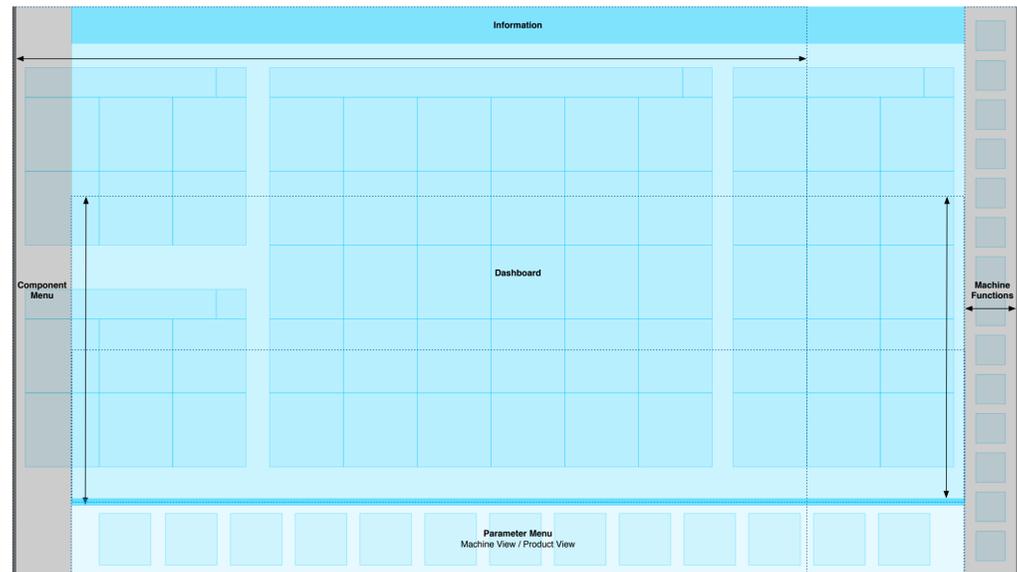
The Weber Maschinenbau group manufactures and distributes special applications for the food industry. With their main product, the "slicer" for cutting meat, ham, sausages and cheese, Weber is the world market leader. The owner-managed company is headquartered in Breidenbach, Hessen.

Scope of this project was the development of a new user interface which can be adapted to 12 different machine types.

HMI Project Interaction Concept



Information Architecture



Screen Areas - Wireframe

Swipe Gestures

Heart of the interaction is the dynamic page layout. It enables constant supervision of the most important production key figures on one central dashboard screen. Further functionality is outsourced from the regular operation but can be easily accessed by quick swipe gestures or clicks. Additional screen areas appear on demand.

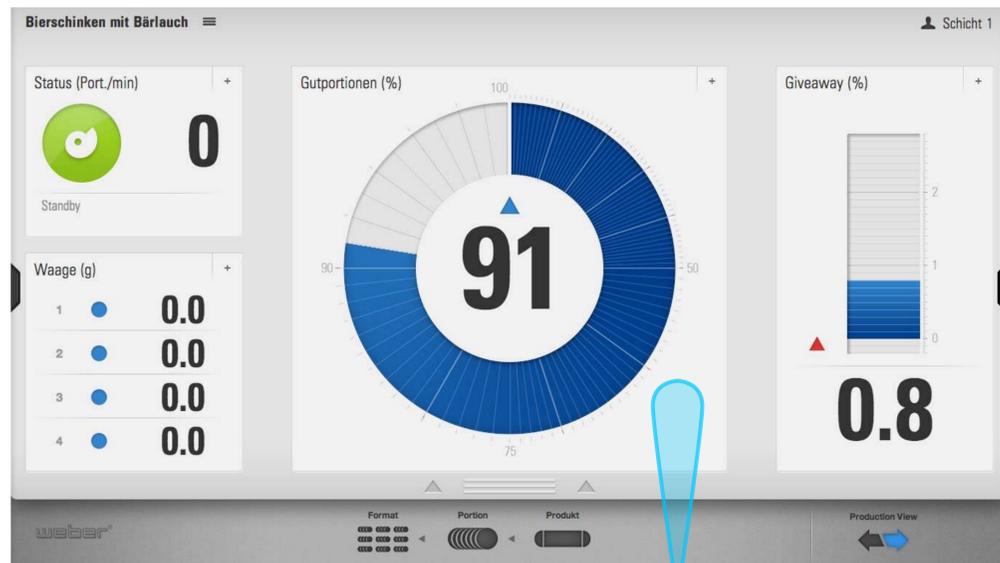


User Experience

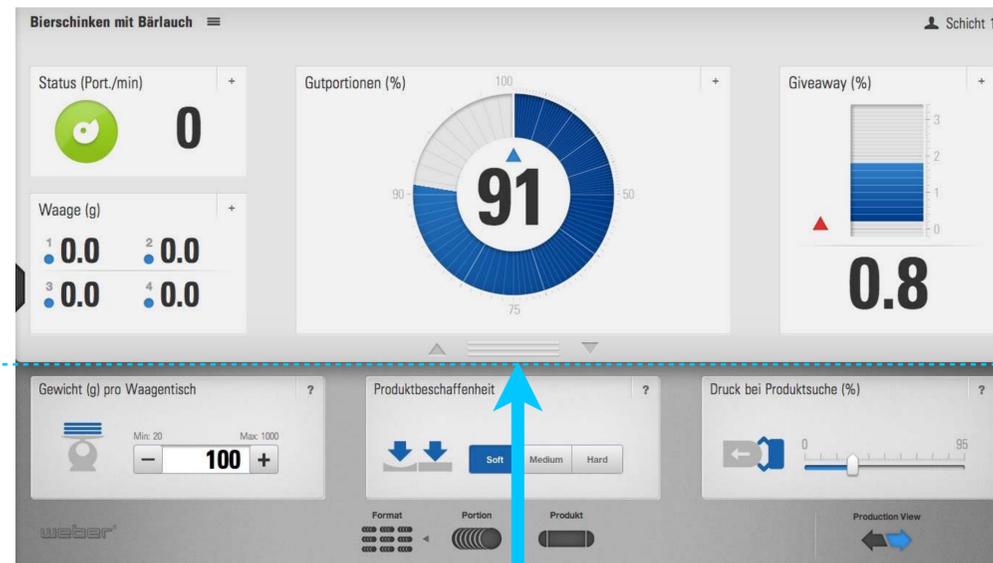
From **Left** Swipe or click to access the component menu (e.g. user management)

From **Right** Swipe or click to access direct hardware functions (e.g. on/off)

From **Bottom** Click to access the machine parameters (sorted by machine components or product processing steps)



Dashboard Overview - Vertical swipe gesture



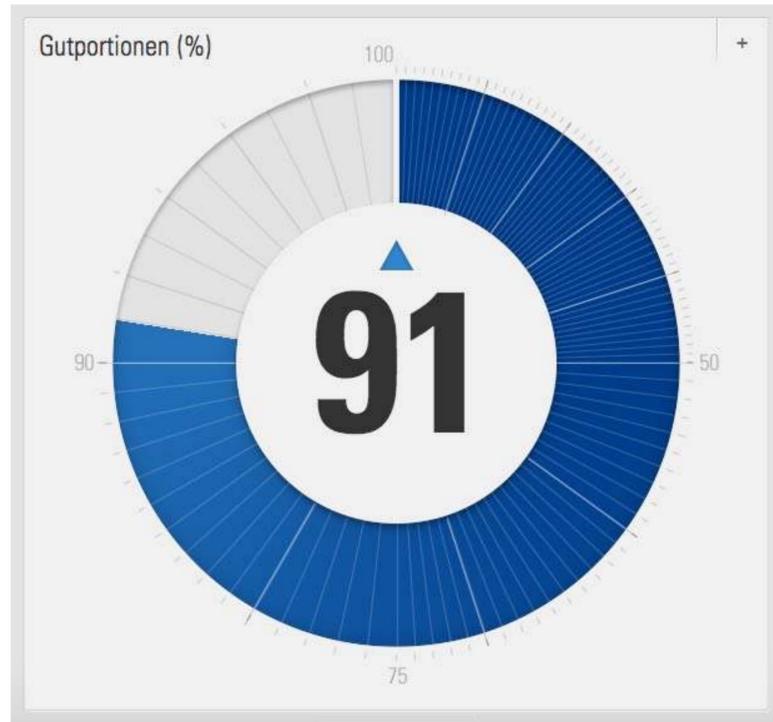
Access to featured parameters - Level 1



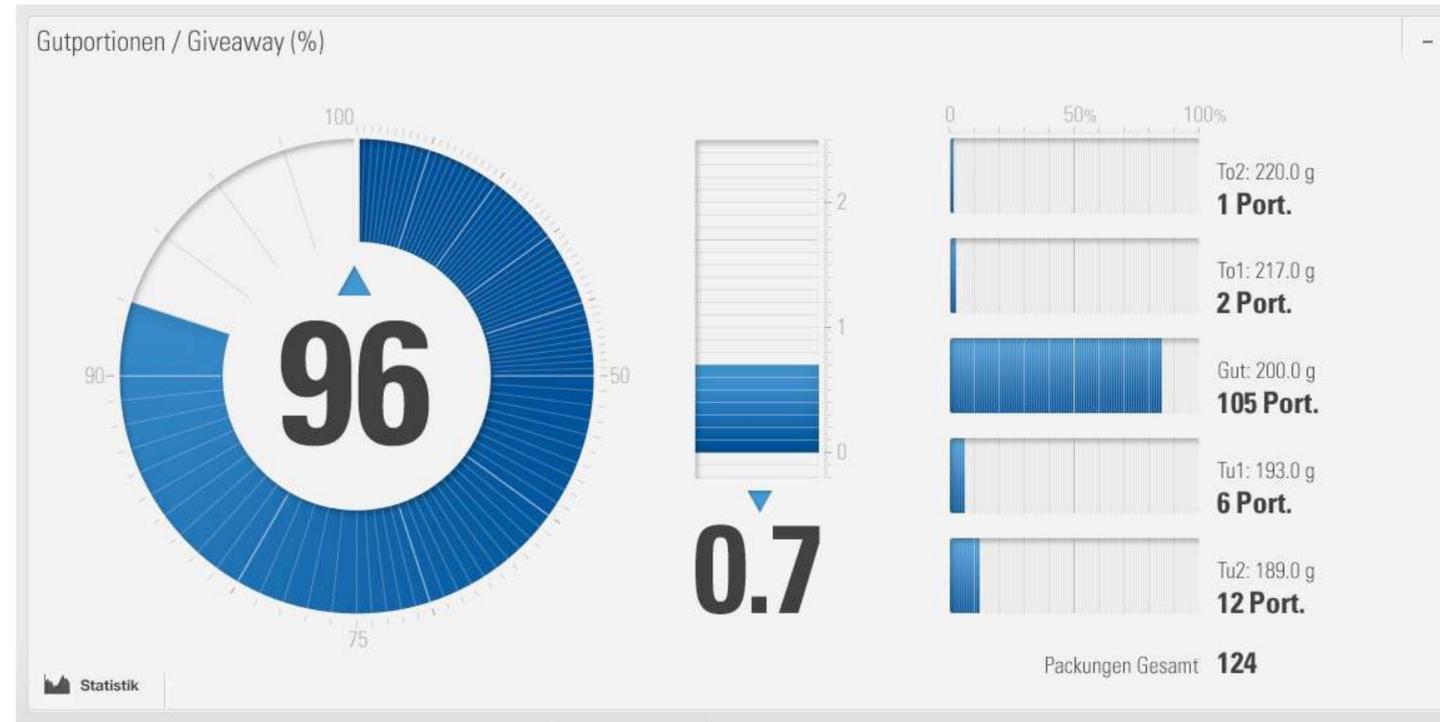
Access to featured parameters - Level 2

Flexible Dashboard

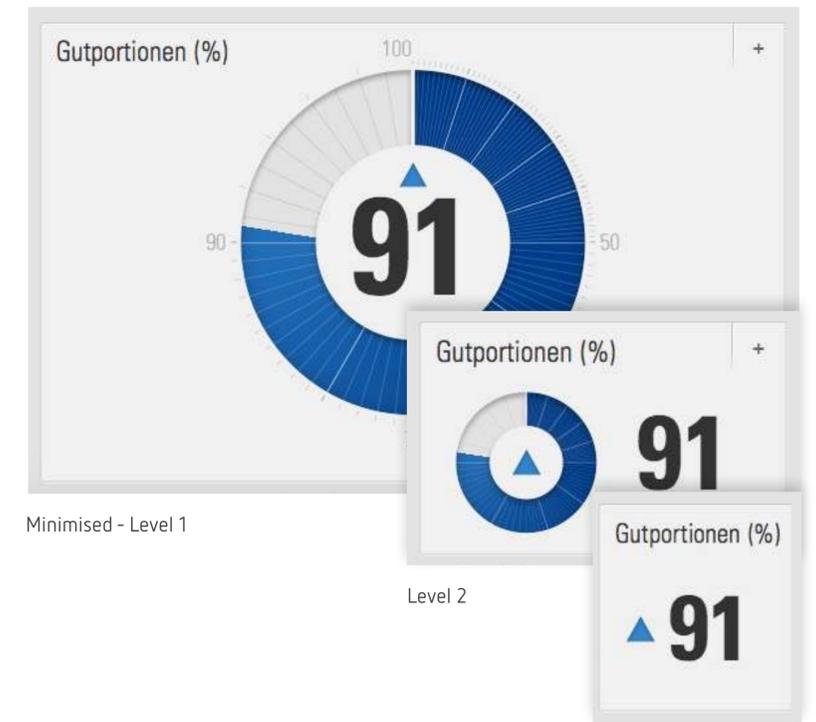
The dashboard – a central monitoring and operation view – summarises complex machine processes and displays them clearly. The information depths can be extended by intuitive swipe gestures. So frequently used parameters which are featured underneath can be quickly manipulated. The widgets and the featured parameters can be adjusted on each workstation or conditional to the machine type.



Standard View



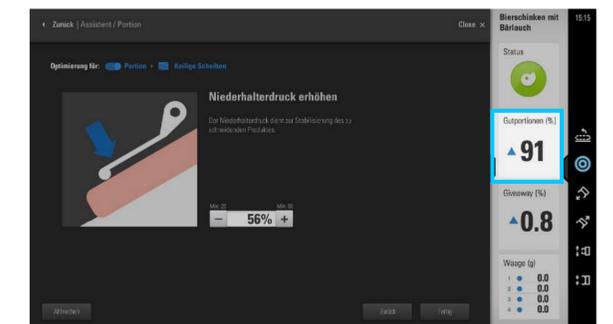
Detail View



Minimised - Level 1

Level 2

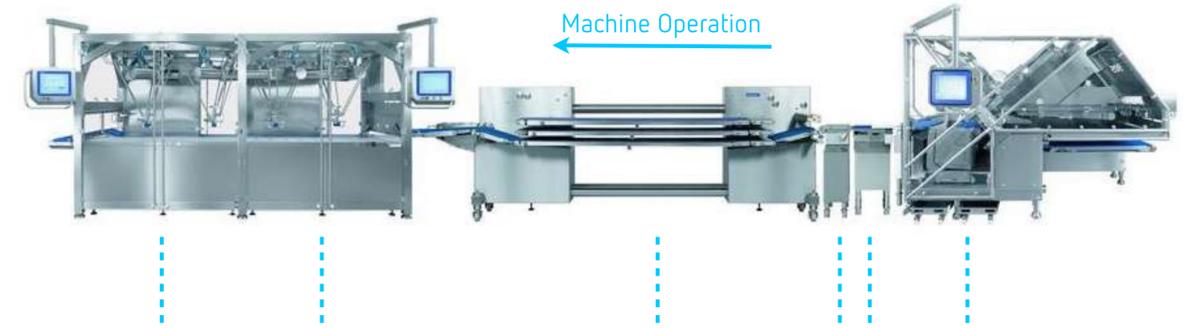
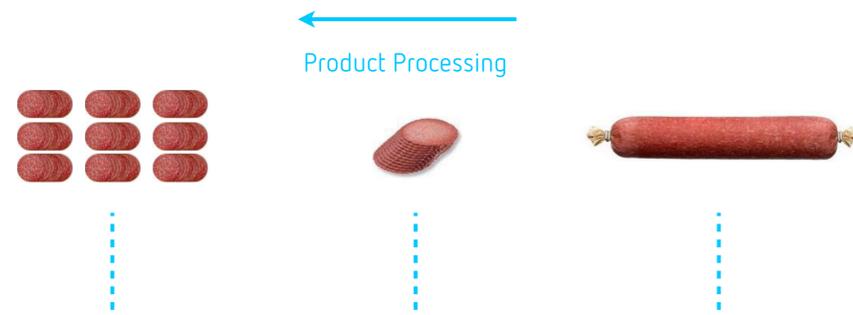
Level 3



Variations of the production output widget

Widget Display Variations

The layout of each screen element is responsively designed and can adapt to new requirements after each user interaction. This behaviour makes detailed information easily accessible and it enables a constant supervision of the most important production key figures regardless of the current navigation position. Additionally HTML5 technology takes care of seamless transitions between the different states.



Bierschinken mit Bärlauch Schicht 1

Status (Port./min) **0**

Waage (g)
 1 **0.0** 2 **0.0**
 3 **0.0** 4 **0.0**

Gutportionen (%) **91**

Giveaway (%) **0.8**

weber®

Format: Portion Produkt Production View

Portionsform: **STAPELN**

Scheiben/Portion: Min: 1 Max: 99 **8**

Gewicht (g) pro Waagentisch: Min: 20 Max: 1000 **100**

Produktlänge (mm): Min: 100 Max: 1600 **1200**

Stapelkorrektur: Min: -500 Max: 500 **0**

Product Parameter View

Bierschinken mit Bärlauch Schicht 1

Status (Port./min) **0**

Waage (g)
 1 **0.0** 2 **0.0**
 3 **0.0** 4 **0.0**

Gutportionen (%) **91**

Giveaway (%) **0.8**

weber®

Einleger Wippe Waage Slicer CHB Pellmaschine Machine View

Charging

Cuting

Portioning

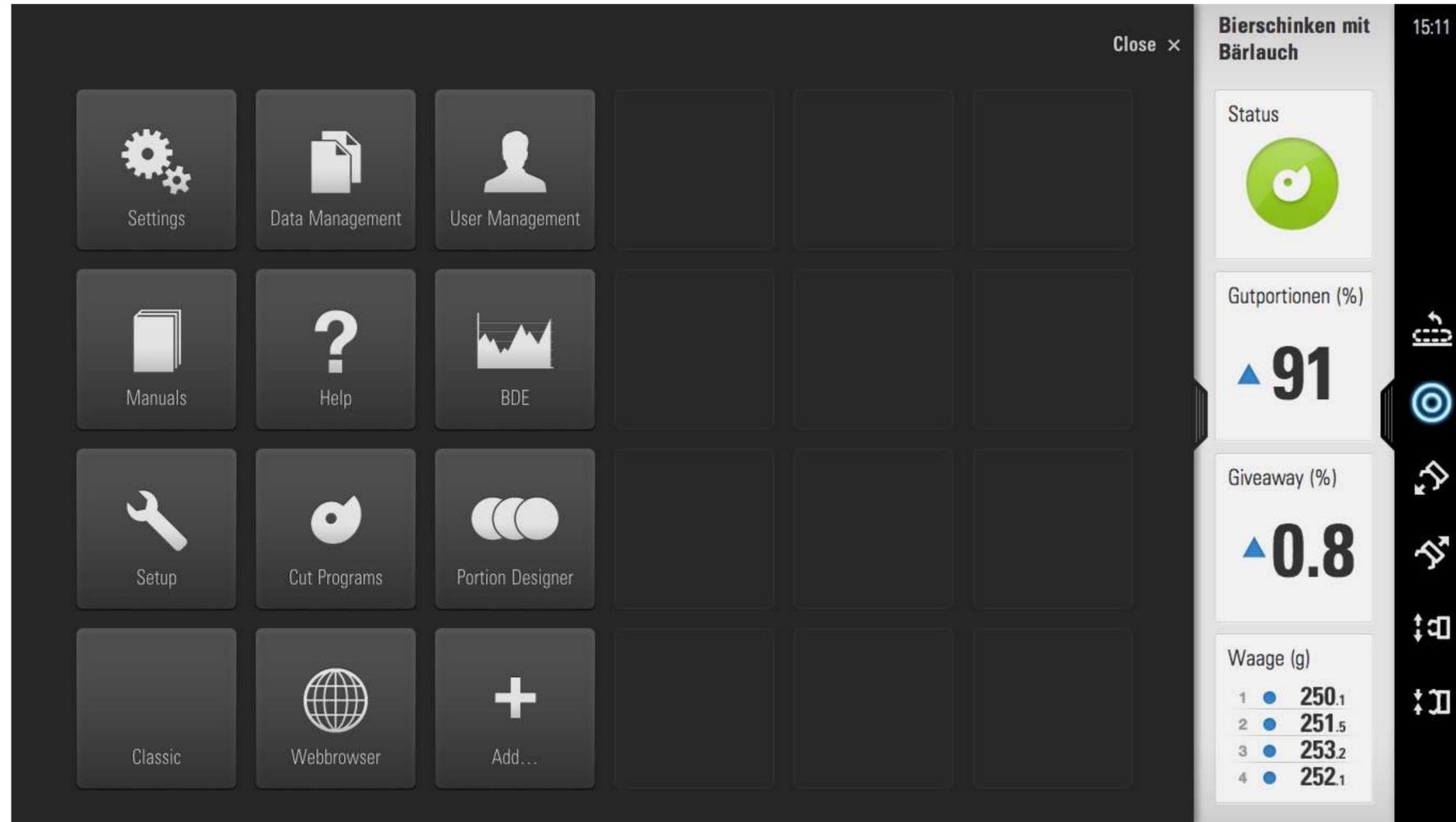
Track Configuration

Produktform	RUND	Anzahl Fehlportionen	C	Position Produktaufgabe (mm)	50 mm
Produktgröße (mm)	199 mm	Entspannungsgeschwindigkeit (mm/s)	150 mm/s	Mit Synchronisation	AUS
Produktbreite (mm)	Min: 30 Max: 600 199	Auswerferverzögerung (mm)	200 mm	Betriebsart Variogreifer	0
Produktlänge (mm)	1200 mm	Greiferintervallzeit (ms)	0 ms		
Anzahl Packungen pro	1	Niederhalter-Druck (%)	50 %		
Druck bei Produktsuche (%)	30 %	Produktführung	AUS		
Produktsuchgeschwindigkeit	150 mm/s	Produktthaltartyp	C		

Machine Parameter View

Production Parameters

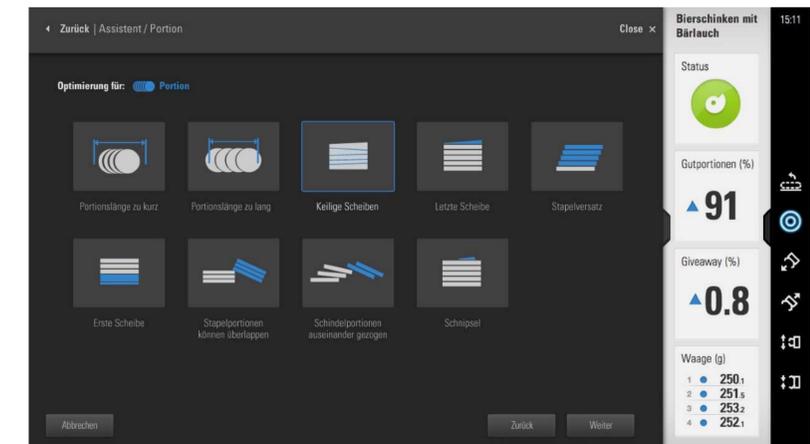
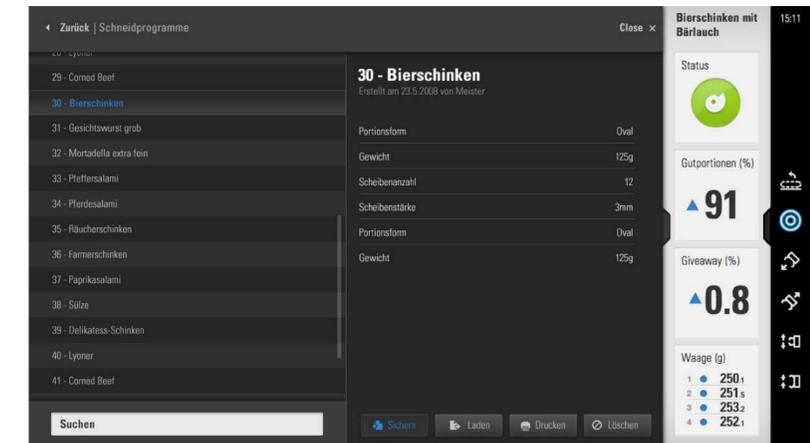
In a workflow-oriented menu all production parameters are accessible grouped by either product processing steps or machine components. Especially for unexperienced user rolls the simple user centric perspective with just the necessary, well illustrated settings is provided. Expert users can choose between this view and a machine oriented view which contains a larger range of parameters.



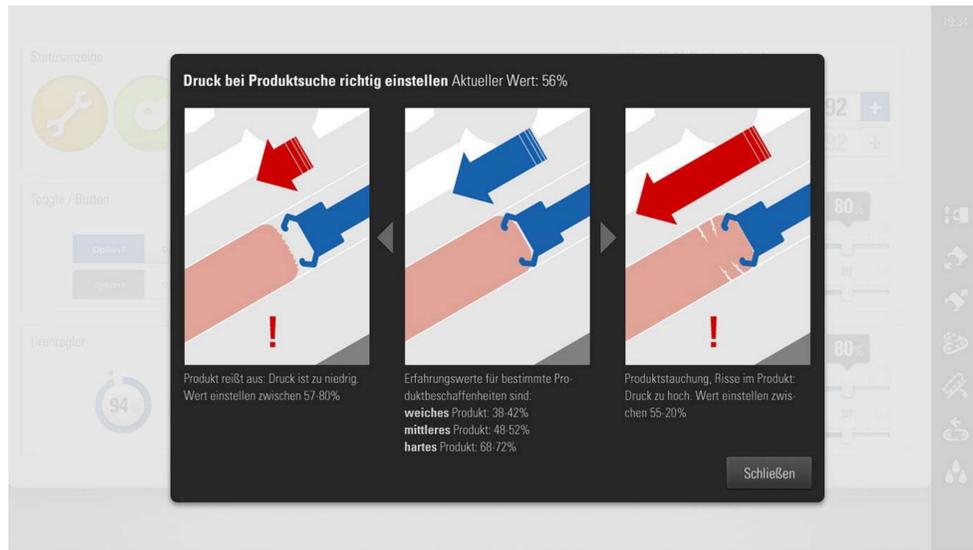
Expanded Menu

Component Menu

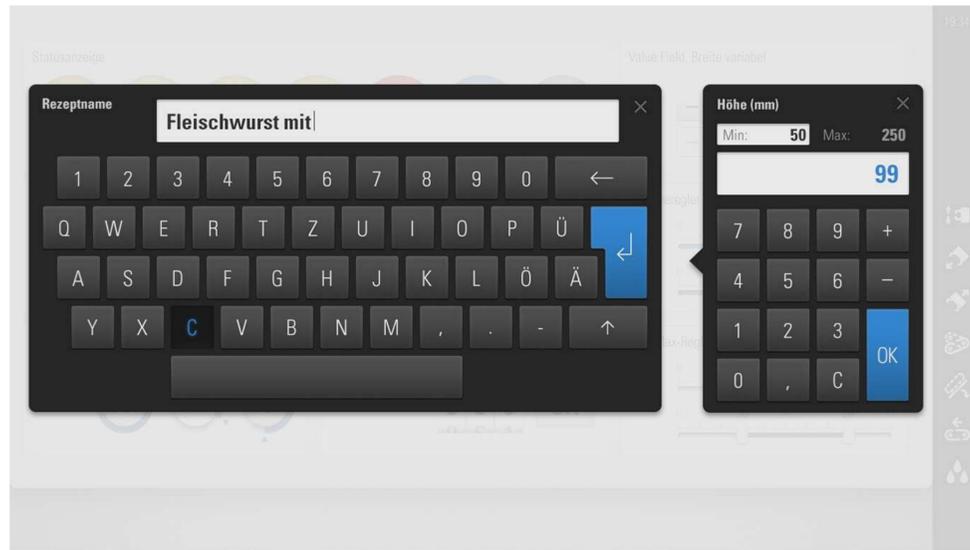
Collection of app-like software components outsourced from the regular operation view. These components are only used outside the regular monitoring and optimisation process. The component menu is expandable by optional modules which can be purchased separately. The dark interface provides a well definite area for the hosting of self-contained components or third-party software.



top down: Menu Access / Recipe Management / Optimisation Assistant



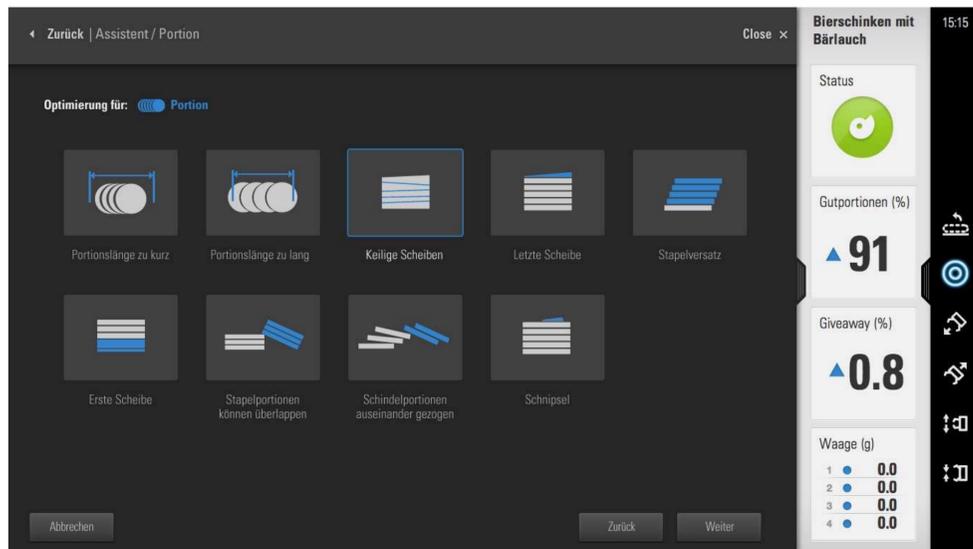
Contextual Help
Associated with each parameter help is provided using image sequences or videos.



Ergonomic Keyboards
Alphanumeric and numeric keyboards are touch optimized and show additional information on given and actual values.



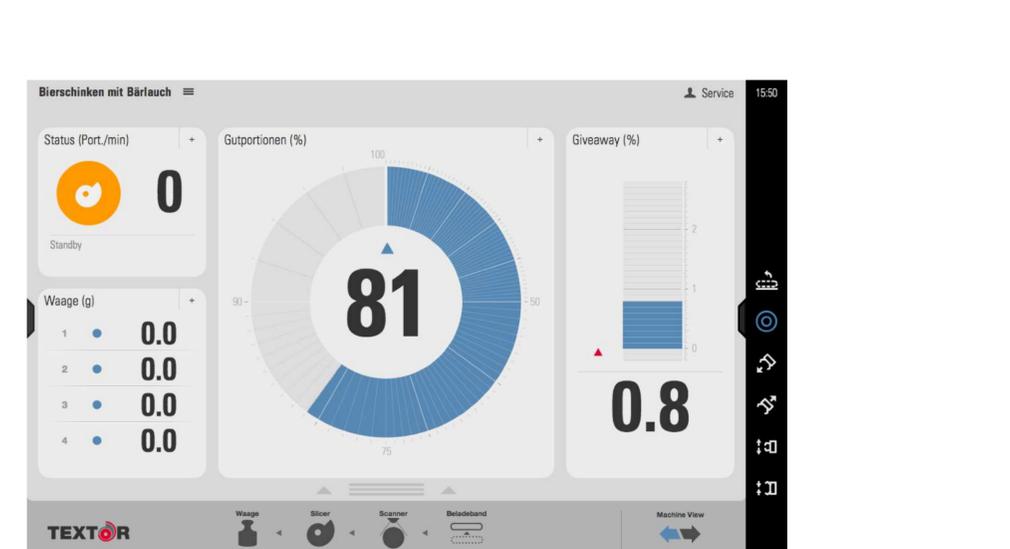
SCADA Visualisation
Monitoring of the current production performance using recorded SCADA data.



Step by Step Assistant
Optimisation of the product quality by answering simple illustrated questions.



Quick Access Options
Recipe and User Management can be accessed directly on the dashboard.



Skinning
Alternative look for sub-company (smaller panel and different aspect ratio).

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