



## ***Shrink Fit Technology – SMART CONCEPT***



# Diebold Shrink Fit Technology: The SMART CONCEPT

Digitization of tool management is the big topic of progress and innovation. Diebold shrink devices in the US1100 series now have a newly developed, innovative touch display user interface.

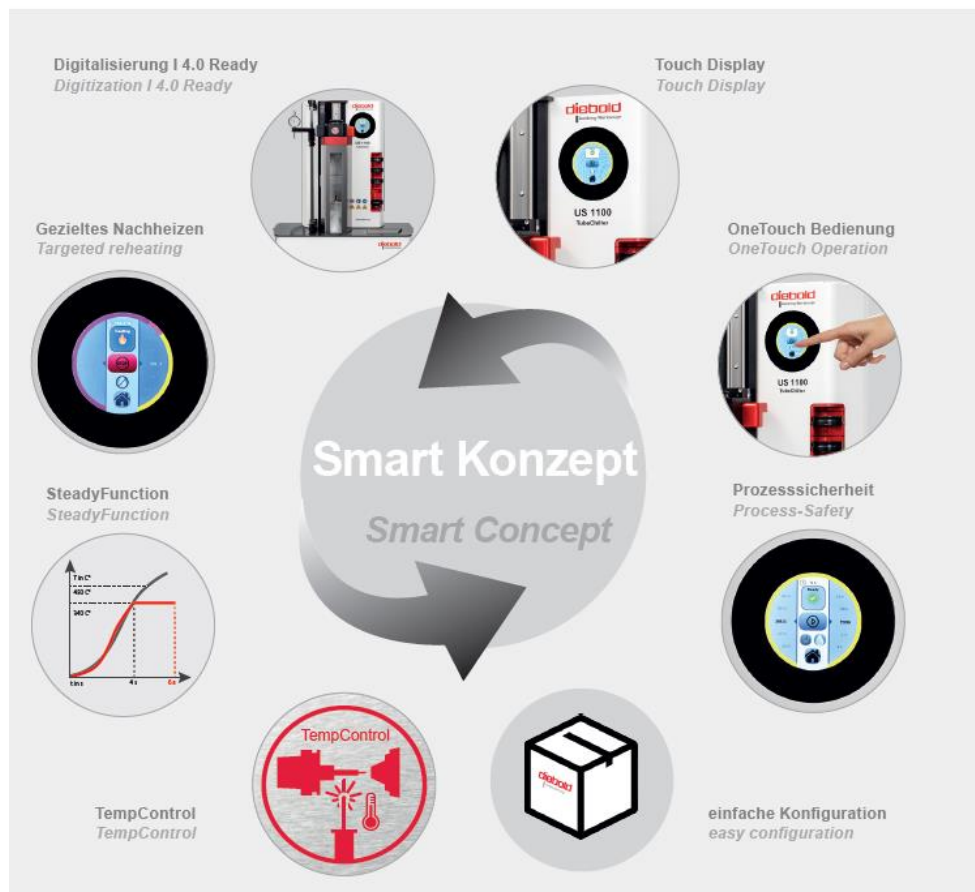
The devices are controlled with the tap of just one button. This ensures that even inexperienced operators can safely shrink tools in and out of their shrink fit holders. Operating errors that have often occurred in the past and have led to overheating of the tool holders are thus eliminated. By tapping the start symbol on the display, the shrink process starts fully automatically. The patented pyrometer technology with TempControl in the coil measures the surface temperature of the chuck during the shrinking process and controls the process. As a result, only the maximum set target temperature is reached, and the bore is kept open for a longer period. Overheating of the tool holders due to operating errors is thus eliminated. As a result of the regulation to the target value, no further parameter selection is required by the user over time and /or performance.

The devices with automatic cooling are equipped with monitoring functions to ensure that the tool holders are safely cooled after the shrinking process and that the operator cannot burn themselves when removing the tools.

## Innovations and News

*Our innovation and motivation*

*Digitization for more process reliability and easy operation like a smartphone*



# Overview Touch Display

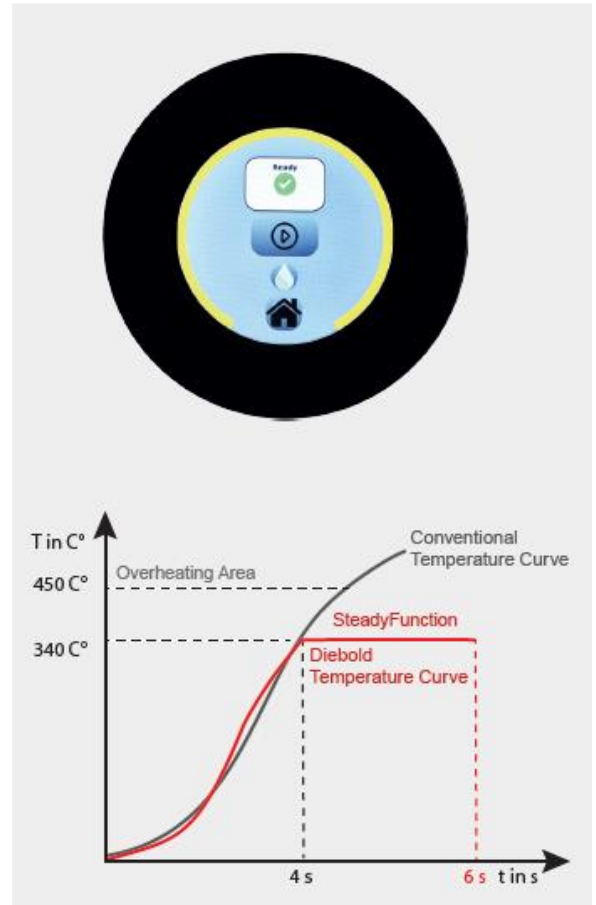
## OneTouch

- No more operating errors
- No overheating of the shrink holders
- No selection of the parameters necessary

One Touch is the new operating mode in the touch display along with TempControl (Pyrometer Control).

In addition to the basic function, this has additional features:

- OneTouch: shrink process with just one push of a button
- Target mode: shrinking up to an individually defined target temperature
- Cooling with the TubeChiller® (option) starts automatically without any further input.
- **NEW SteadyFunction:**
  - Maintaining the target temperature → Longer fitting time



## Touch-Display

User-friendly menu navigation with modern touch design

- Graphical visualization of the shrinking and cooling process. Simple and optionally expandable parameter input with USB Numpad
- User-friendly creation of individual parameter lists with own names (optionally with external keyboard)
- Hiding and showing parameters lists.
- I 4.0 Ready through Ethernet interface and data exchange
- Customization options: Dark design (Dark Theme)
- Avoid operating errors through individual menu configuration
- Authorized concept with password
- Hands-free operation with foot switch



## Overview Touch Display

### Basic II Display

In terms of menu navigation and basic functionality, the Basic Display II has the same functions as the previous display of the US1100 devices

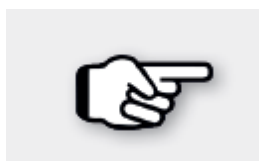
Nevertheless, there are the following features:

- Trouble-free operation by parameter mode (chuck + diameter) and manual mode (time + power)
- Latest digital technology replaces old microcontroller
- Operation with USB-numpad possible. This allows the Numpad to be placed in a position convenient for the operator.
- Hands-free operation with foot switch



### TempControl Safety Function in the Shrink Fit Unit

TempControl ensures that only the necessary temperature is used for the shrink process. The temperature of the shrink fit chuck is continuously measured by the TempControl during the inductive heating process. As soon as the shrink chuck has reached the predefined temperature, the heating process is automatically terminated. Overheating of the chuck is not possible.



**TempControl (pyrometer)  
is only included in the  
OneTouch package.**



## Unique Features – OneTouch

- The only *temperature-controlled* shrink device on the market brings shrink fit technology to a new innovative level.
- *Temperature-controlled* shrinking with just one push of a button, no settings required (OneTouch)
- *Evolution* in shrink technology – shrink process on a new level
- *Process-safe*, temperature-controlled shrinking process
- *SteadyFunction*: Longer fitting opening times for tool presetting by maintaining the target temperature over time
- *Targeted post-heating* after the shrinking process is possible (overheating is *not* possible)
- *Hands-free operation* with foot and hand buttons
- *IoT 4.0 technology* ready thanks to a new, powerful technology
- *User-friendly* touch operation with the latest, powerful technology.
- *Updates* via internet or USB stick connections
- *Modern software design* with extensive customization options and various themes (hide parameters, deactivate buttons, dark theme surfaces, passwords for settings)

Functions	Basic II Display 79.500.800.101	Touch Display 79.500.800.105	OneTouch Display 79.500.800.150
<i>TubeChiller® Presets</i>	STD	STD	STD
<i>TubeChiller®</i>	STD	STD	STD
<i>New Languages</i>	STD	STD	STD
<i>Diebold Parameters List</i>	STD	STD	STD
<i>Manual Parameter Mode</i>	STD	STD	STD
<i>New Password Controls</i>	STD	STD	STD
<i>New Additional Input Devices</i>	STD	STD	STD
<i>Update via Display</i>	STD	STD	STD
<i>Dark Theme Screen</i>	NA	STD	STD
<i>Deactivate Menus</i>	NA	STD	STD
<i>Hide Parameter Lists</i>	NA	STD	STD
<i>Editor for Saving Special Parameters</i>	NA	STD	STD
<i>Rename Parameter Lists</i>	NA	STD	STD
<i>Update via ethernet</i>	NA	STD	STD
<i>Ethernet Interface</i>	NA	STD	STD
<i>OneTouch Mode</i>	NA	NA	STD
<i>Target Mode (TempControl)</i>	NA	NA	STD

# Overview of Models Available



US 1100 Horizontal 79.500.101	US 1100 Vertical 79.500.201	US 1100 TubeChiller® 79.500.201 / 79.500.800.350
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Part Number	Description Options			
79.500.800.200	Basic Coil	STD	STD	STD
79.500.800.205	Pyrometer Coil	OPT	OPT	OPT
79.500.800.400	Length Adjustment with indicator	OPT	OPT	OPT
79.500.800.410	Fixed Stop Length Adjustment	OPT	OPT	OPT
79.500.800.351	TubeChiller®	NA	OPT	STD
79.402	FKS 04 S Automatic	OPT	OPT	NA
Part Number	Description Accessories			
79.500.900.901	Too holder Basic adapter for US 1000H	REQ	NA	NA
79.500.900.025	Modular tool holder HSK25	OPT	NA	NA
79.500.900.032	Modular tool holder HSK32	OPT	NA	NA
79.500.900.040	Modular tool holder HSK40	OPT	NA	NA
79.500.900.050	Modular tool holder HSK50	OPT	NA	NA
79.500.900.063	Modular tool holder HSK63	OPT	NA	NA
79.500.900.100	Modular tool holder HSK100	OPT	NA	NA
79.500.900.130	Modular tool holder 30 Taper	OPT	NA	NA
79.500.900.140	Modular tool holder 40 Taper	OPT	NA	NA
79.500.900.150	Modular tool holder 50 Taper	OPT	NA	NA
79.500.900.U	Universal Vise Holder	OPT	NA	NA
Part Number	Description Accessories US 1100 Vertical			
79.220.020	Tool holder HSK25/32	NA	OPT	OPT
79.220.021	Tool holder HSK40/50	NA	OPT	OPT
79.360.325	Tool holder HSK25 TubeChiller®	NA	NA	OPT
79.360.332	Tool holder HSK32 TubeChiller®	NA	NA	OPT
79.360.340	Tool holder HSK40 TubeChiller®	NA	NA	OPT
79.360.350	Tool holder HSK50 TubeChiller®	NA	NA	OPT
79.360.363.01	Tool holder HSK63 TubeChiller®	NA	NA	OPT
79.360.380	Tool holder HSK80 TubeChiller®	NA	NA	OPT
79.360.390	Tool holder HSK100 TubeChiller®	NA	NA	OPT
79.220.011	Tool holder 30/40 Taper TubeChiller®	NA	OPT	OPT
79.500.900.450	Tool holder 50 Taper TubeChiller®	NA	OPT	OPT



## ***Diebold and Accutek – Passion for Perfection and Quality***

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Werkzeugaufnahmen  
*Goldring Tool Holders*



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Spindelreparaturen  
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Werkstück-Spanntechnik  
*Workpiece Clamping Technology*



Qualitäts-Check / Service  
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Schrumpftechnik  
*Shrink Technology*



Spindeltechnologie  
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