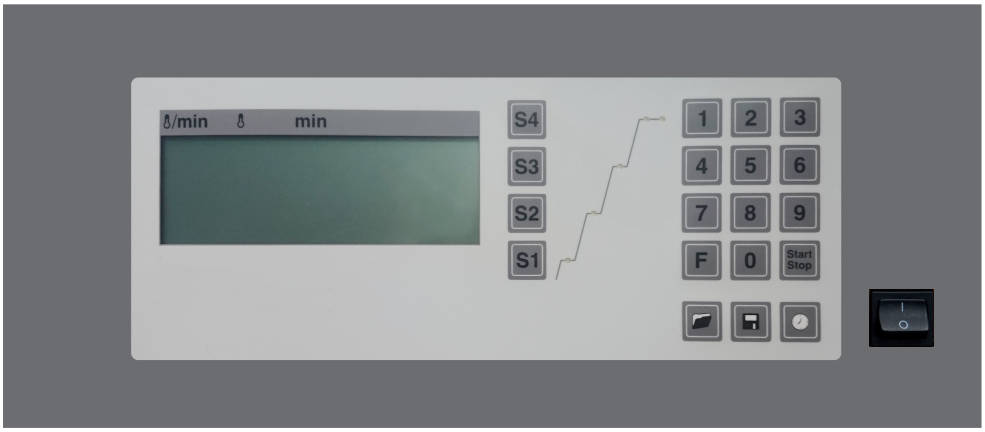
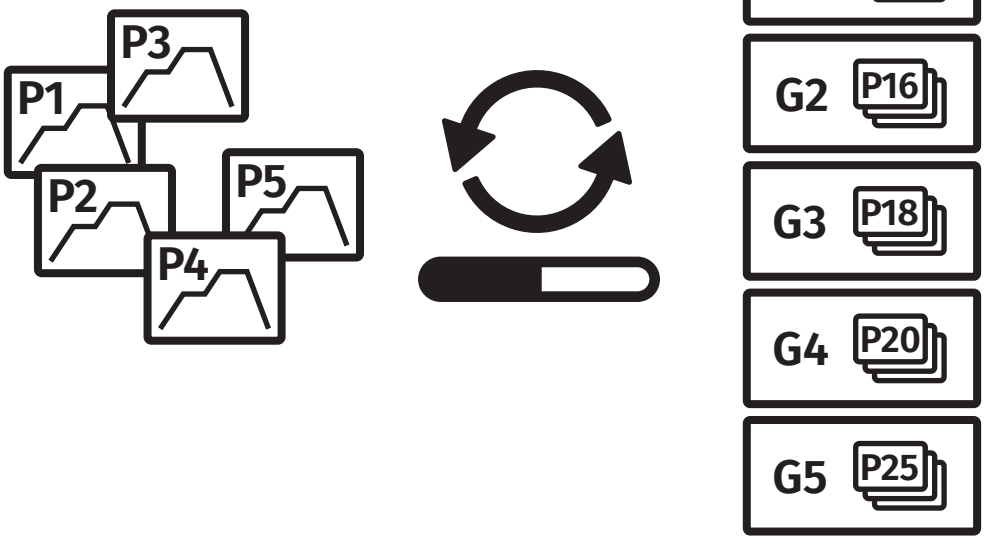
Software DOES1001
HTS-2/M/ZIRKON-120

Features & Instructions
Eigenschaften & Anleitungen

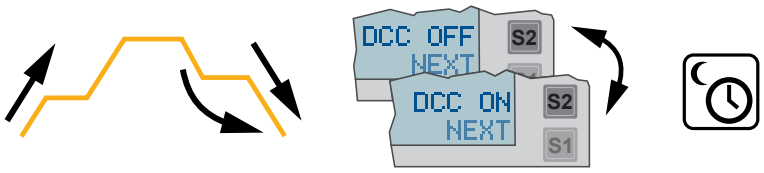
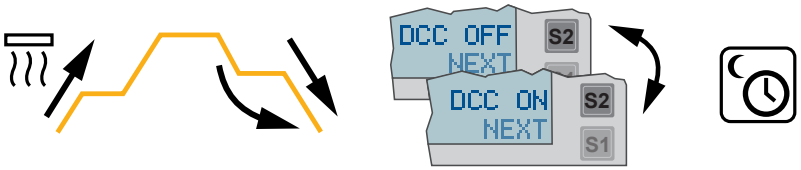
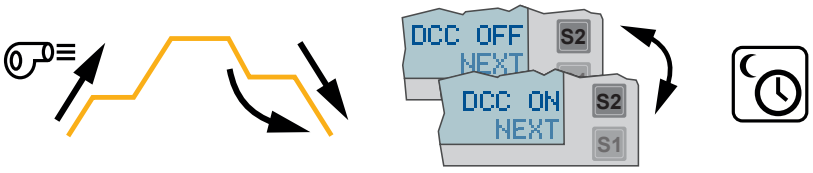




1. Features
1. Eigenschaften

- **5 program groups with a total of 30 program places**
- **3 service programs**
- **120°/min heating rate programmable in any program**
- **Up to 9 stages programmable**
- **Prepared for glaze programs (next software version)**

- 5 Programmgruppen mit insgesamt 30 Programmplätzen
- 3 Serviceprogramme
- 120°/min Aufheizrate bei jedem Programm programmierbar
- Bis zu 9 Stufen programmierbar
- Vorbereitet für 5 Glasurbrandprogramme (nächste Software Version)

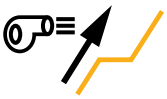
Program slots: Programmplätze:	**Characteristics & Options:** Charakteristika & Optionen:
1-15	
16-17	
18-19	
20-24	
25-30	 **Available with next software version.** Mit nächster Software Version verfügbar.

1. Features
1. Eigenschaften

Symbol index:
Symbolindex:

Linear heating: The programmed heating rate will be held constantly and accurately.
Lineares Aufheizen: Die programmierte Aufheizrate wird konstant und präzise gehalten.

Pre-drying: Preprocessed drying with opened door.
Vortrocknen: Vorgeschaltete Trocknung bei geöffneter Tür.



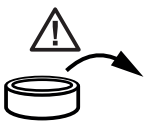
Ventilated heating: During the heating process the door remains open 5mm up to 1200°C.
Belüftetes Aufheizen: Während der Aufheizphase bleibt die Tür bis 1200°C 5mm geöffnet.

Linear cooling: The programmed cooling rate will be held constantly and accurate.
Lineares Abkühlen Die programmierte Abkühlrate wird konstant und präzise gehalten.

Door closed cooling (DCC): The door remains closed during the cooling phase.
Abkühlen bei geschlossener Tür (DCC): Während der Abkühlphase bleibt die Tür geschlossen.

Speed cooling: The door opens completely at the maximum process temperature.
Schnelles Abkühlen: Tür öffnet komplett bei maximaler Prozess-Endtemperatur.

Glaze: Additional Surface finishing (next software version).
Glasurbrand: Zusätzliche Oberflächenveredelung (nächste Software Version).

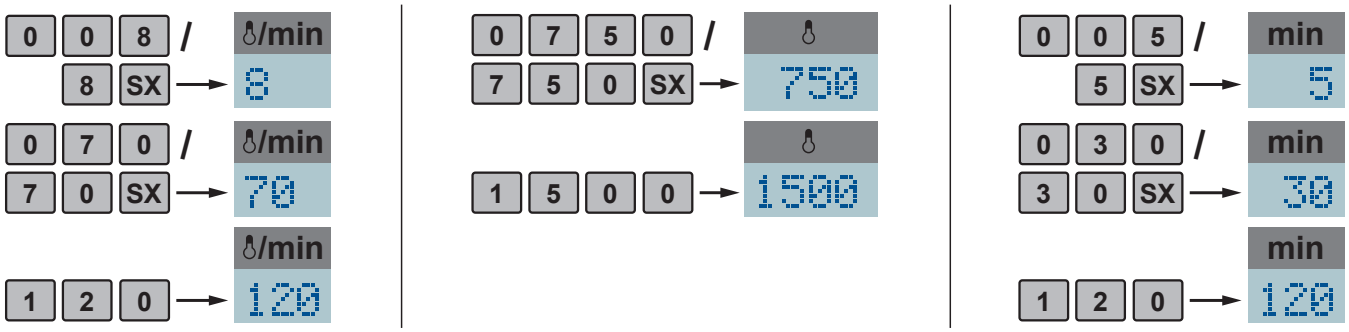


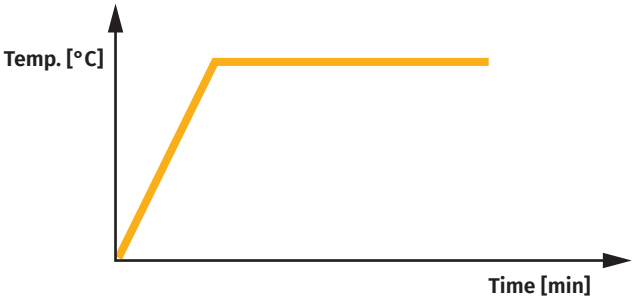
Remove sinter tray! Danger of sinter tray damage caused by unsuitable process parameters.
Sinterschale entnehmen! Zerstörungsgefahr der Sinterschale durch für die Sinterschale ungeeignete Prozessparameter.

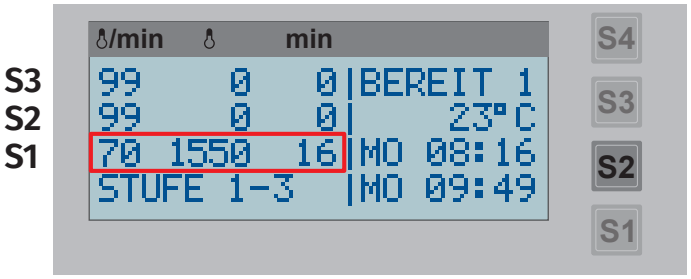
Autostart/timer: Programming the finishing time.
Autostart/Timer: Programmierung der Fertigstellungszeit.

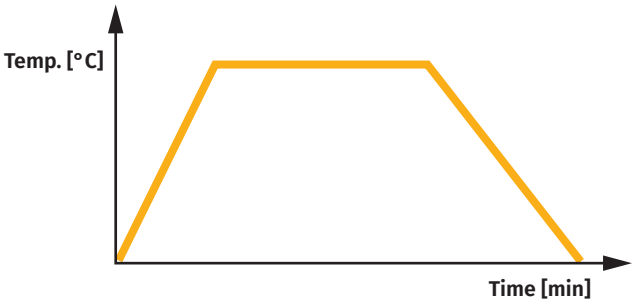
3. Programming Steps 1-9
3. Stufen 1-9 programmieren

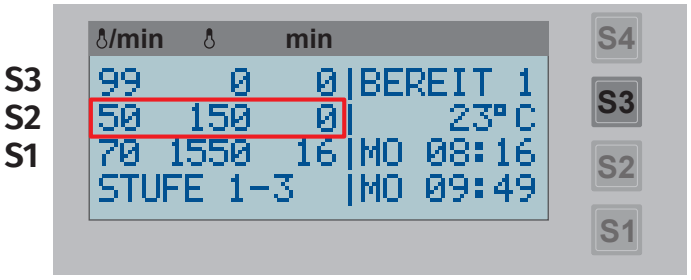
S1-S9

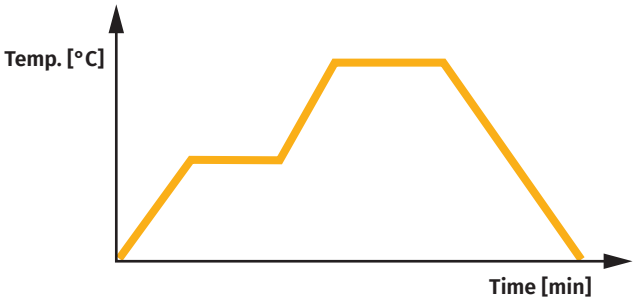


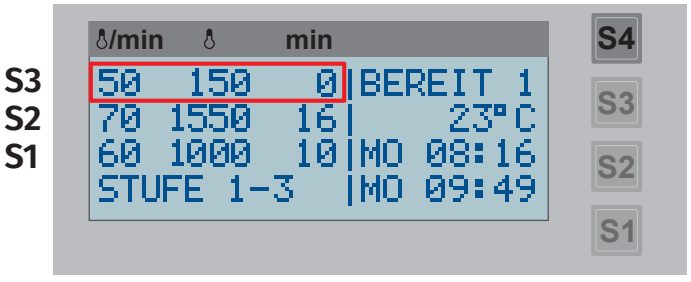


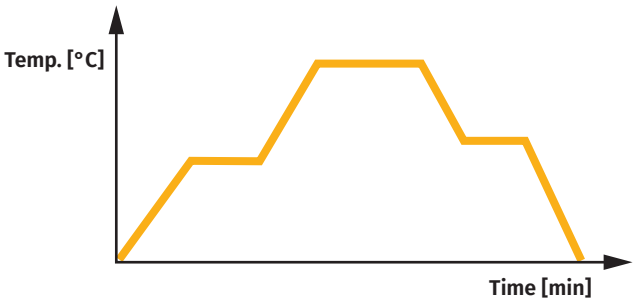


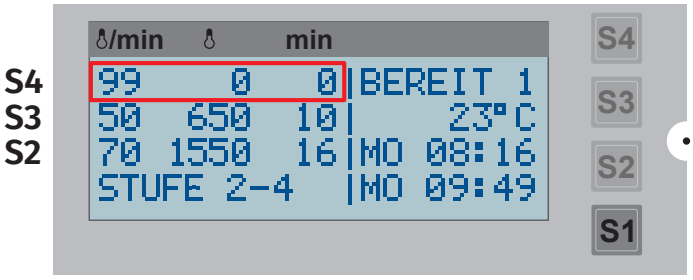




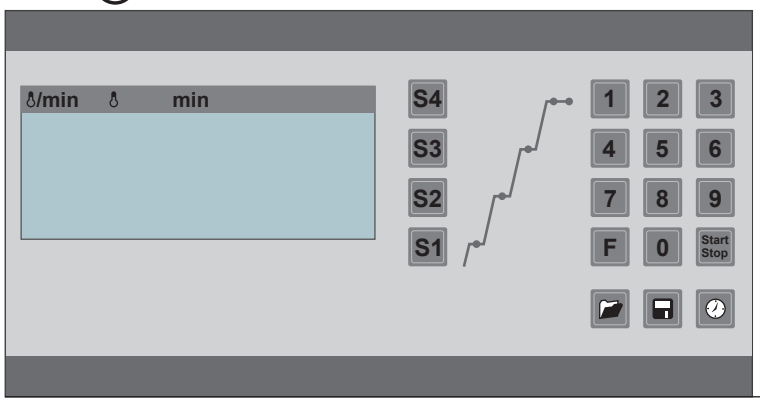




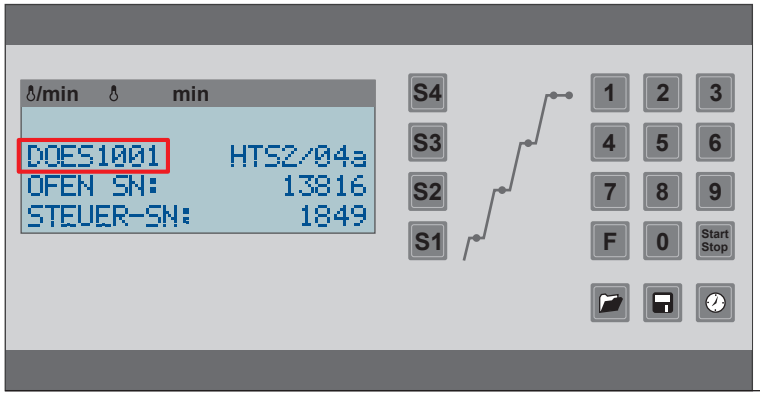




01



02



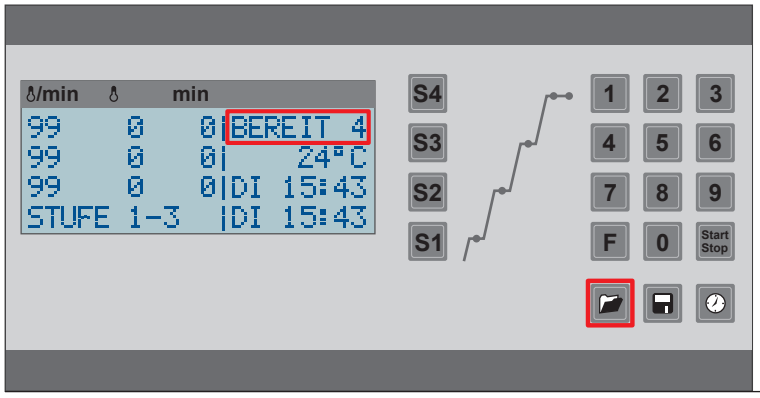
Software DOES 1001:

- **120°C/min**
- **Program groupings**
- **Up to 9 stages**

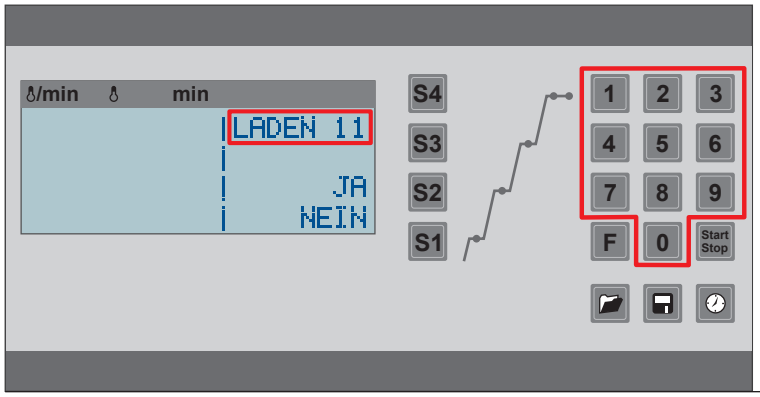
Software DOES 1001:

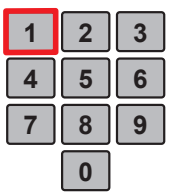
- 120°C/min
- Programmgruppierung
- bis zu 9 Stufen

03 P__



04 P11

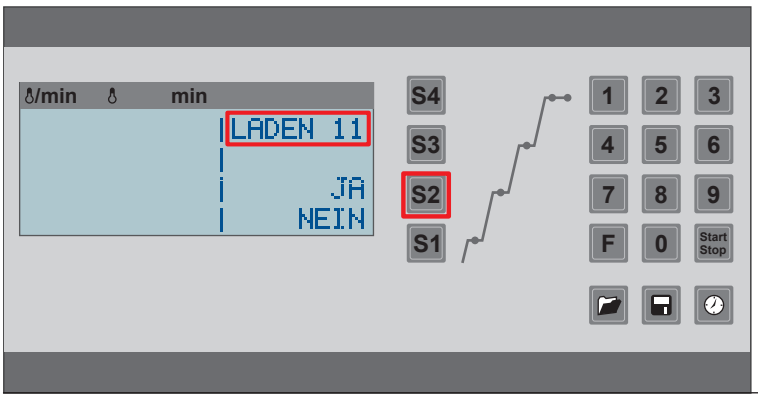




2x 1

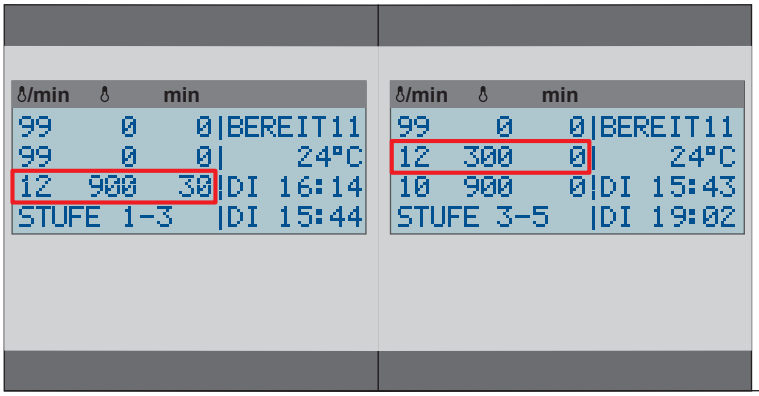
3. Programming Steps 1-9
3. Stufen 1-9 programmieren

05 **P11**



S2 → P11 ✓

06 **S1-S5**

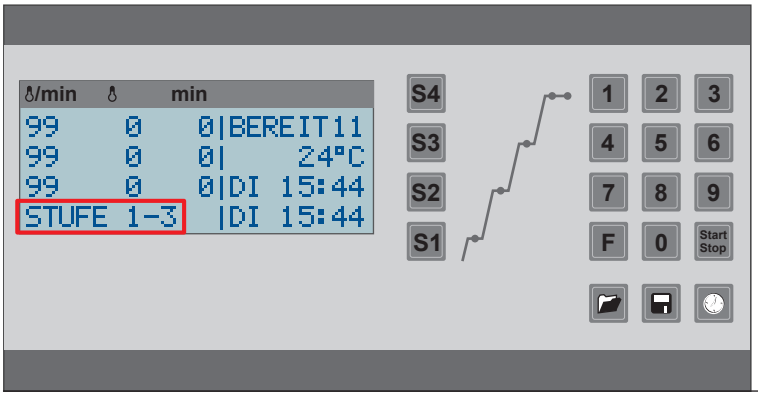


S1

S4

- **Start the programming allways with stage 1.**
  Die Programmierung immer mit Programm-Stufe 1 beginnen.
- **The last process stage is the one with the last programmed settings (in this example step 4).**
  Die letzte Prozessstufe ist die, bei der die letzten Werte eingegeben wurden (In diesem Beispiel Stufe 4).

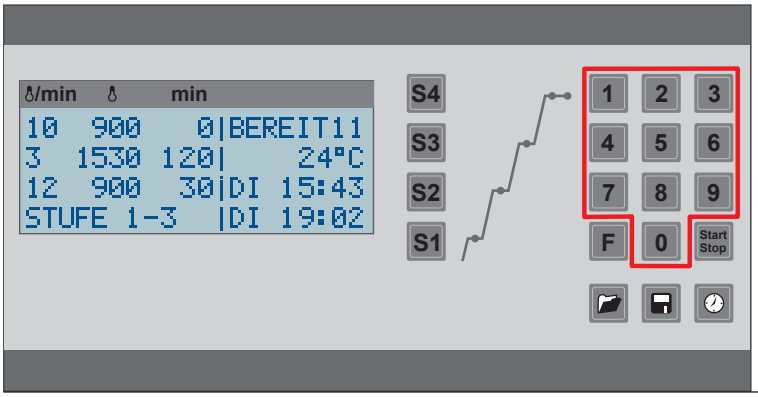
07 **S1-S3**



S3
S2
S1

- **Ready to set stage 1.**
  Bereit, Stufe 1 zu programmieren.

08 **S1-S3**



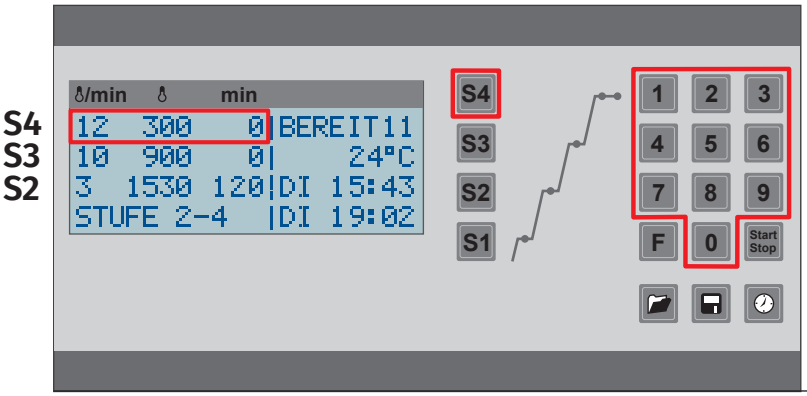
S3
S2
S1

S2 → S1
S3 → S2
S4 → S3

3. Programming Steps 1-9

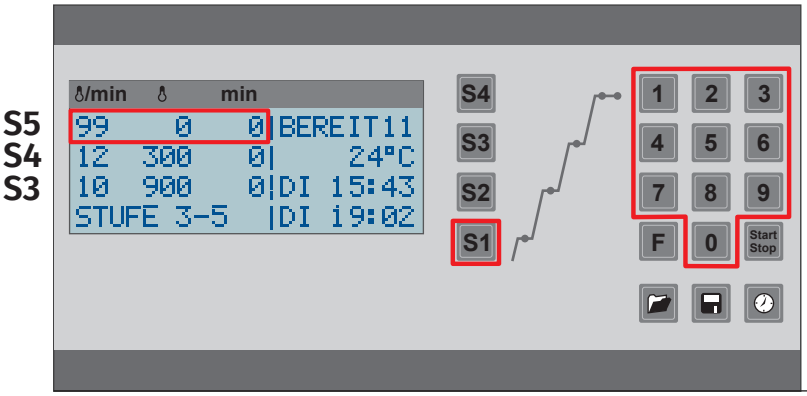
3. Stufen 1-9 programmieren

09 S2-S4



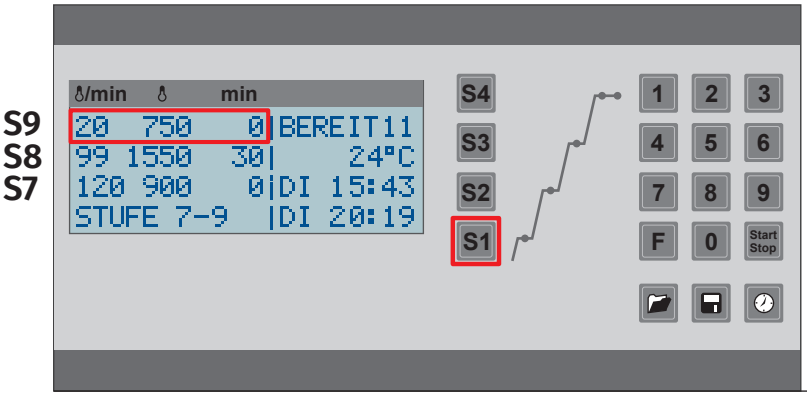
S1 → S4

10 S3-S5



S1 → S5 ...

11 S7-S9



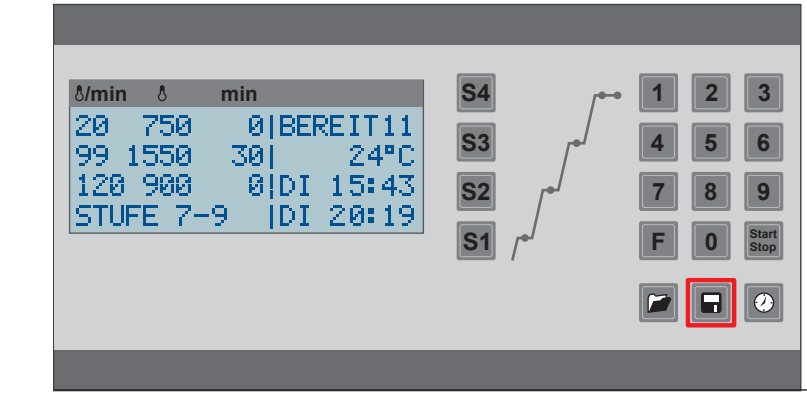
S1 → S6

S1 → S7

S1 → S8

S1 → S9

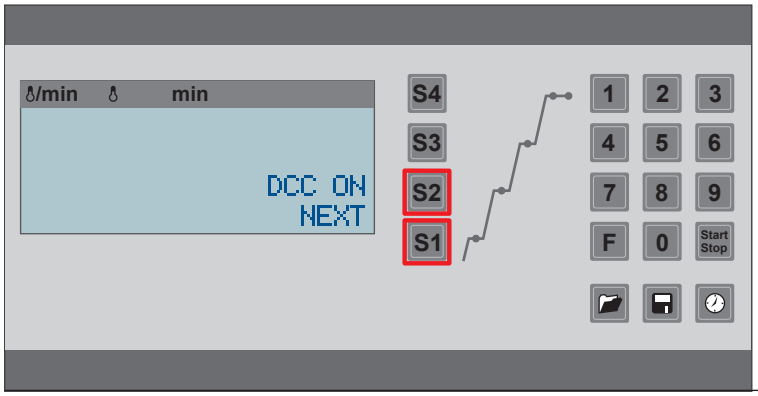
12 S7-S9



S1 - S9 ✓ →

4. Choose options
4. Optionen auswählen

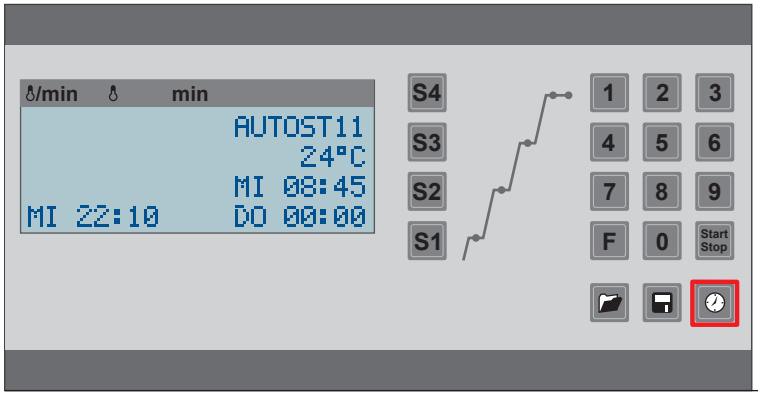
13 **Choice option „DCC“** Auswahl Option „DCC“



S1 → **NEXT / DCC ON**

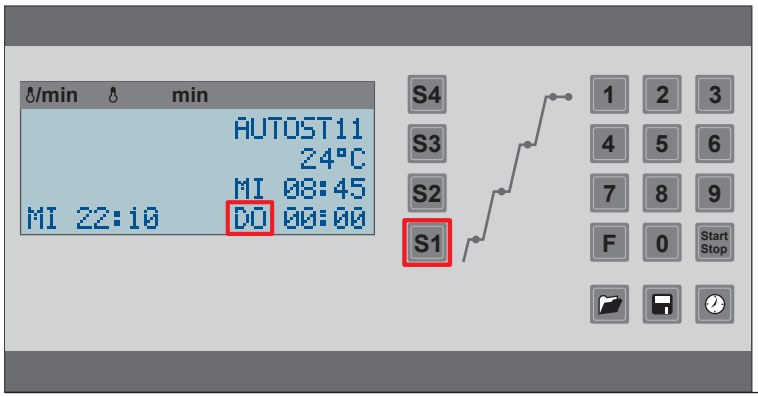
S2 S1 → **DCC OFF**

14 **Autostart/Timer** Autostart/Timer



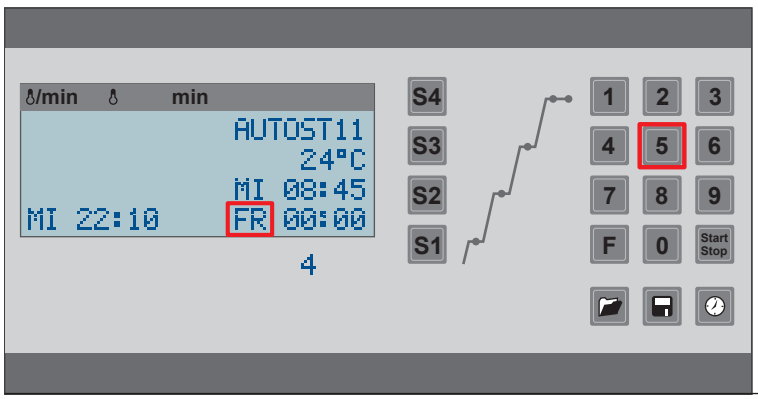
Set autostart/timer programming finishing time.
Autostart/Timer Programmierung der Fertigst.-Zeit.

15 **Autostart/Timer** Autostart/Timer



S1 → **Choose day: 1=Mo., 2=Tue. ...**
Wochentag wählen: 1=Mo., 2=Di. ...

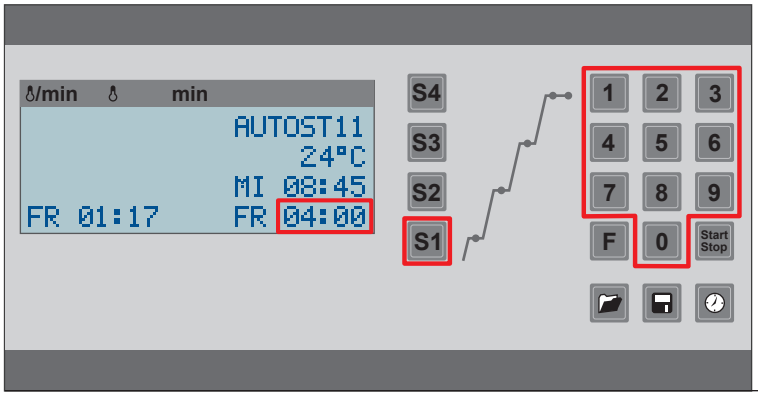
16 **Autostart/Timer** Autostart/Timer



S1 → **Choose day: 5=Friday (example).**
Wochentag wählen: 5=Freitag (Beispiel)

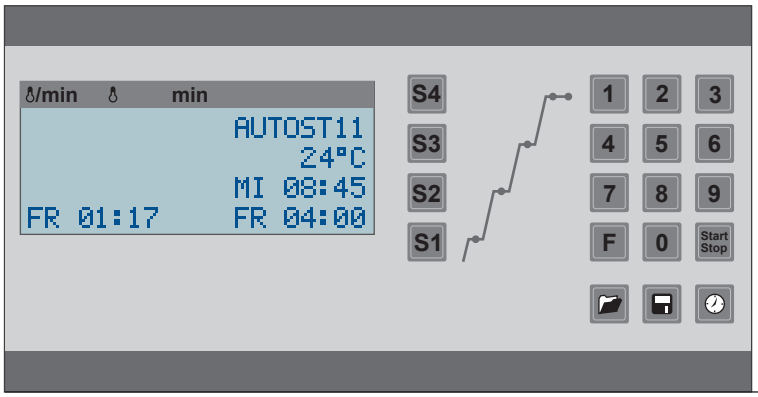
4. Choose options and start process
4. Optionen auswählen und Prozess starten

17 **Autostart/Timer** Autostart/Timer



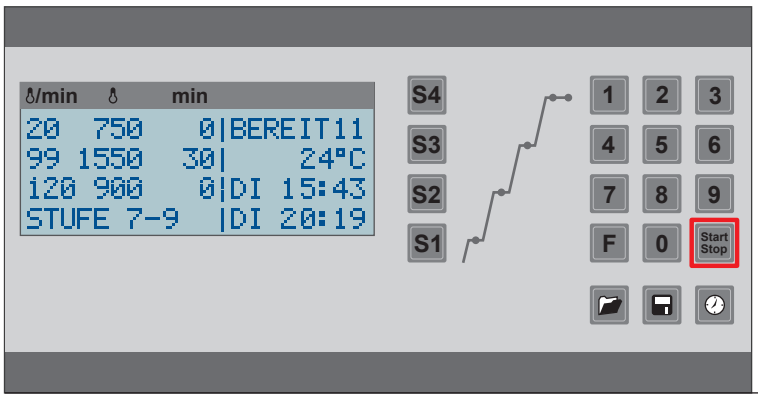
S1 → **Set finishing time.**
Uhrzeit für die Fertigstellungszeit eingeben.

18 **Autostart/Timer** Autostart/Timer



Start time: Friday, 01:17 h
Finishing time: Friday, 04:00 h
Startzeit: Freitag, 01:17 Uhr
Fertigstellungszeit: Freitag, 04:00 Uhr

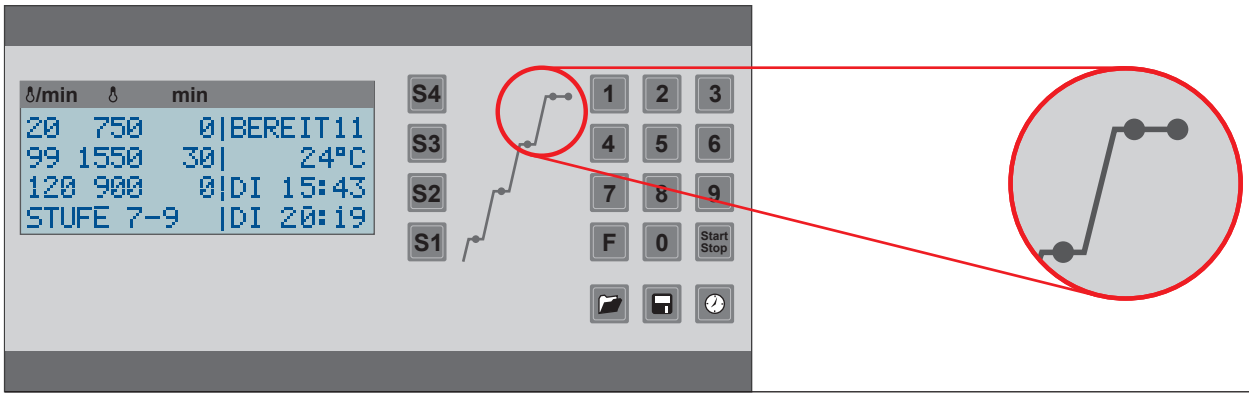
19 **Start process** Prozess starten



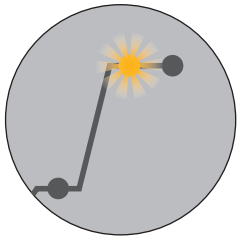
Start Stop

4. LED signals during the process
4. LED Signale während des Prozesses

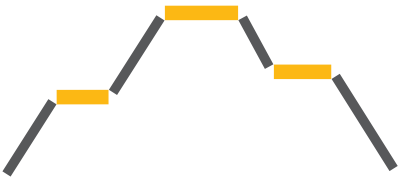
20 **Light signals** LED-Signale

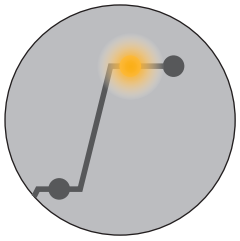


Heat up phase:
Aufheizphase:



Holding phase:
Haltephase:





Successful process finish:
Erfolgreiches Prozessende: