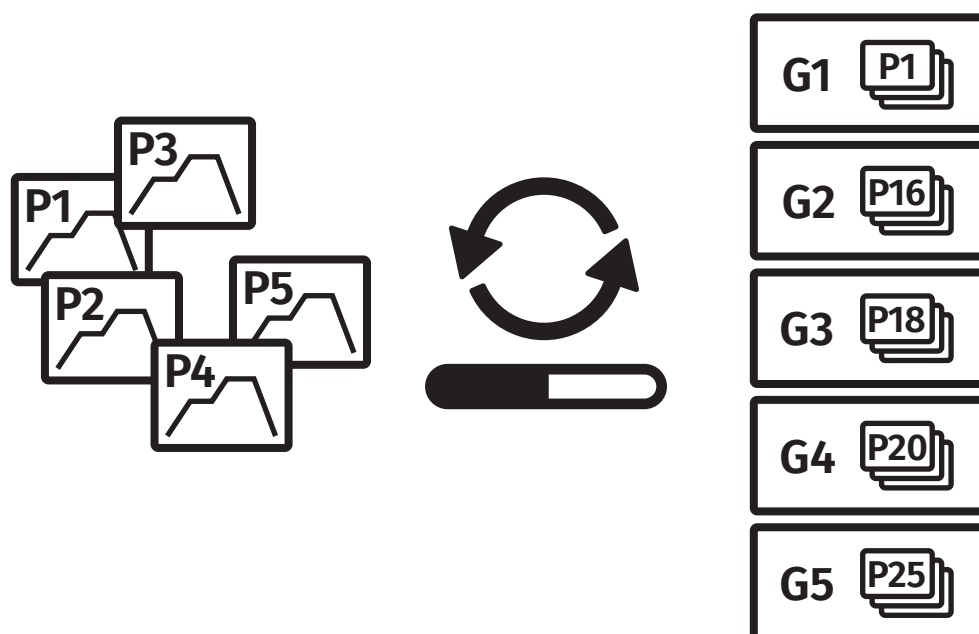


Software DOES 1005 HTS-2/M/ZIRKON-120

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:

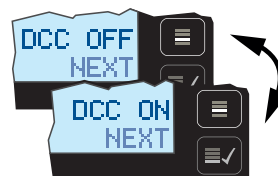
Programmplätze:

Characteristics & Options:

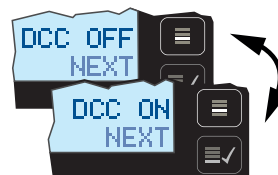
Charakteristika & Optionen:



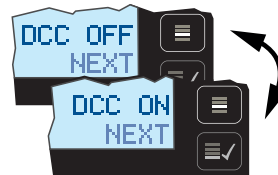
1-15



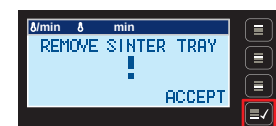
16-17



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

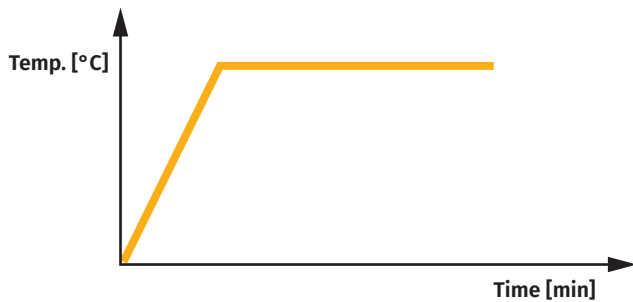
S1-S9



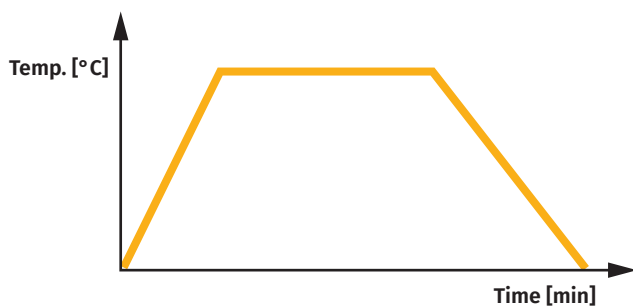
0 0 8 /	Δ /min
8 	8
0 7 0 /	Δ /min
7 0 	70
	Δ /min
1 2 0	120

0 7 5 0 /	Δ
7 5 0 	750
	Δ
1 5 0 0	1500

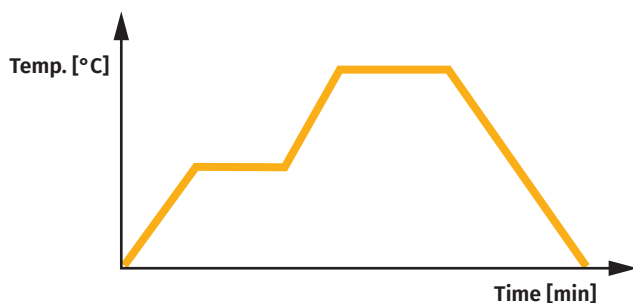
0 0 5 /	min
5 	5
0 3 0 /	min
3 0 	30
	min
1 2 0	120



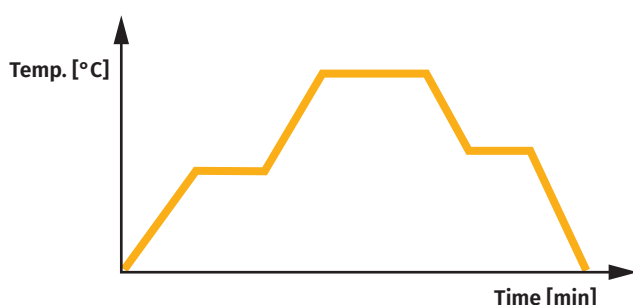
S3	Δ /min	Δ	min	
S2	99	0	0	BEREIT 1
S1	70	1550	16	MO 08:16
	STUFE 1-3			MO 09:49



S3	Δ /min	Δ	min	
S2	99	0	0	BEREIT 1
S1	50	150	0	23°C
	70	1550	16	MO 08:16
	STUFE 1-3			MO 09:49



S3	Δ /min	Δ	min	
S2	99	150	0	BEREIT 1
S1	70	1550	16	23°C
	60	1000	10	MO 08:16
	STUFE 1-3			MO 09:49

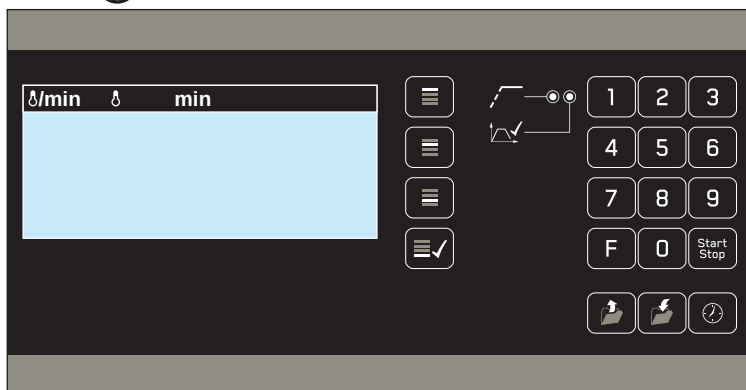


S4	Δ /min	Δ	min	
S3	99	150	0	BEREIT 1
S2	50	650	10	23°C
	70	1550	16	MO 08:16
	STUFE 2-4			MO 09:49

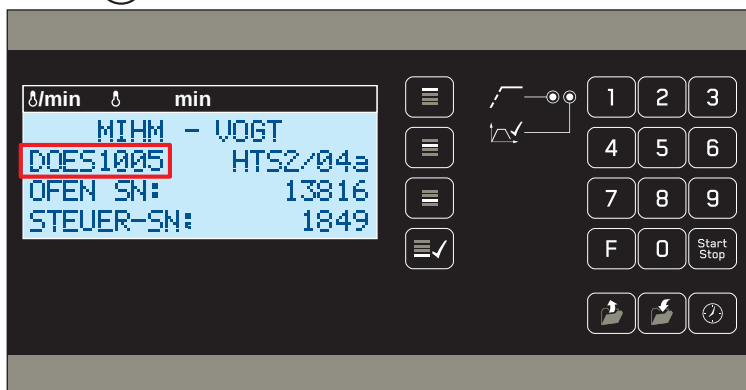
3. Programming Steps 1-9

3. Stufen 1-9 programmieren

01 



02 



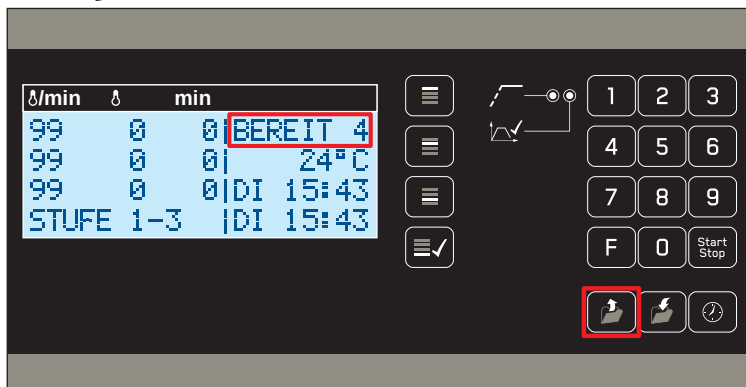
Software DOES 1003:

- 120°C/min
- Program groupings
- Up to 9 steps

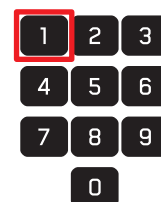
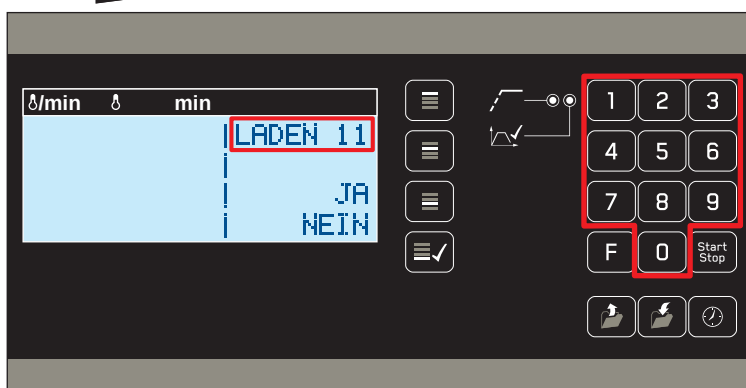
Software DOES 1003:

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

03  P__



04  P11

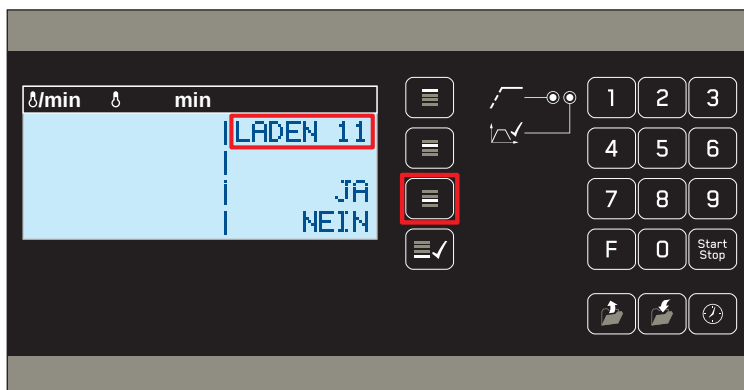


2x 1

3. Programming Steps 1-9

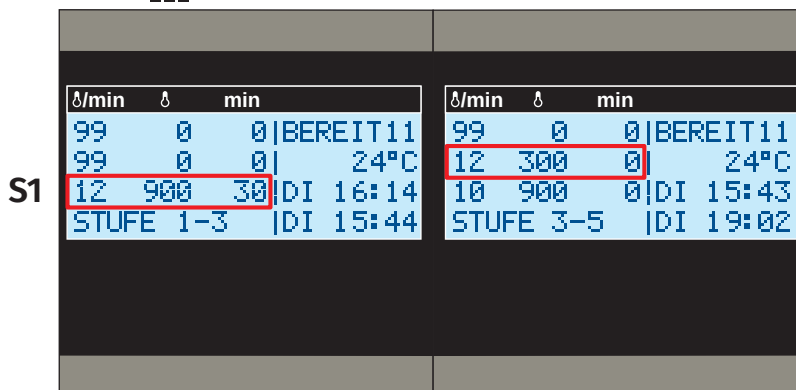
3. Stufen 1-9 programmieren

05 P11



P11 ✓

06 S1-S5



- Start the programming allways with step 1.

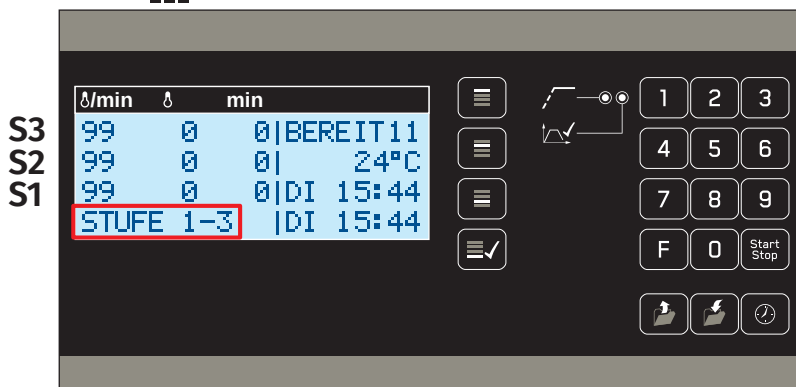


Die Programmierung immer mit Programm-Stufe 1 beginnen.

- The last process step 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).

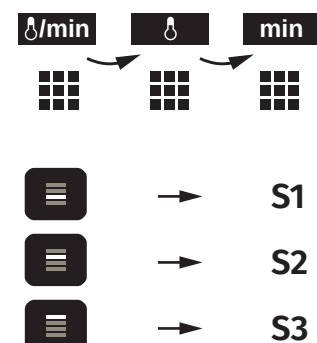
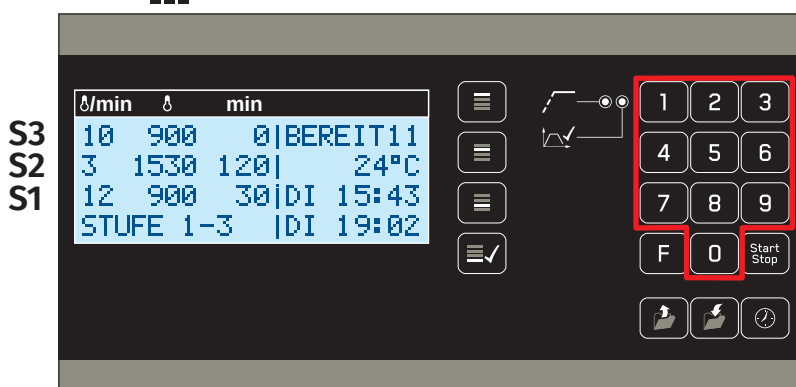
07 S1-S3



- Ready to set step 1.

Bereit, Stufe 1 zu programmieren.

08 S1-S3



3. Programming Steps 1-9

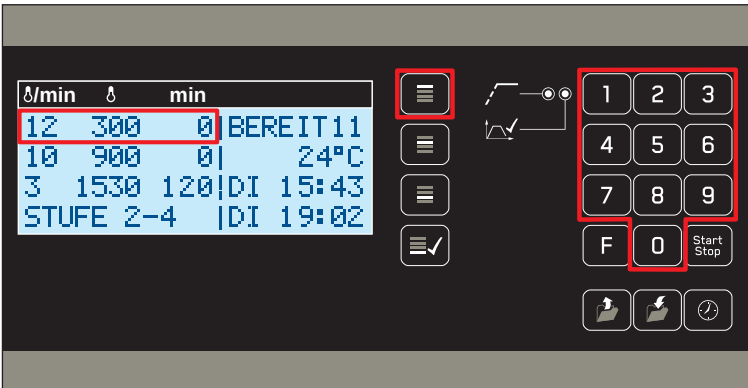
3. Stufen 1-9 programmieren

09  S2-S4

S4

S3

S2





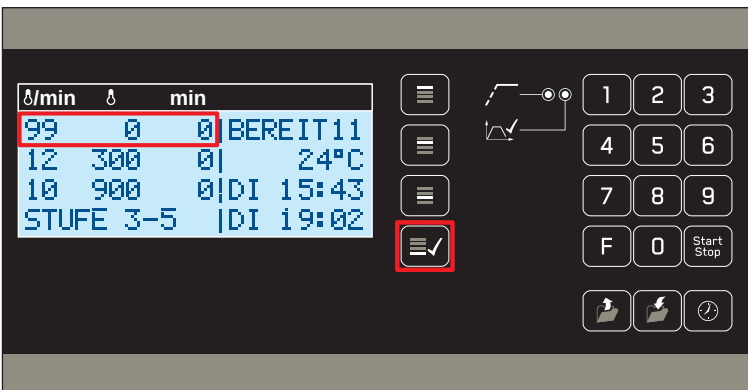
→ S4

10  S3-S5

S5

S4

S3





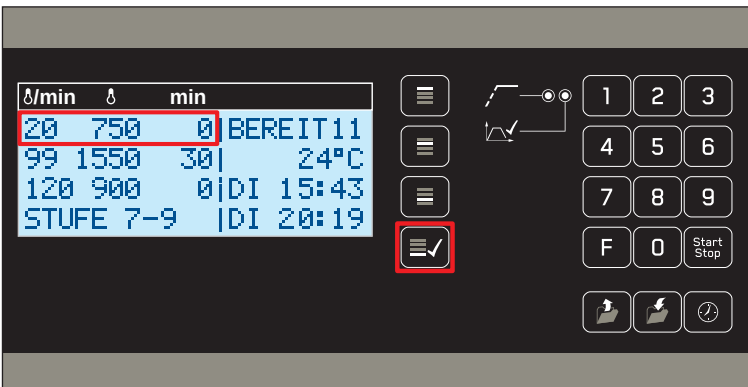
→ S5 ...

11  S7-S9

S9

S8

S7





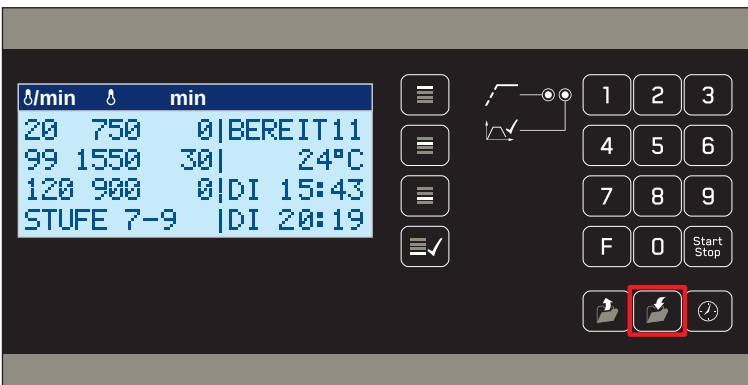







→ S6
→ S7
→ S8
→ S9

12  S7-S9

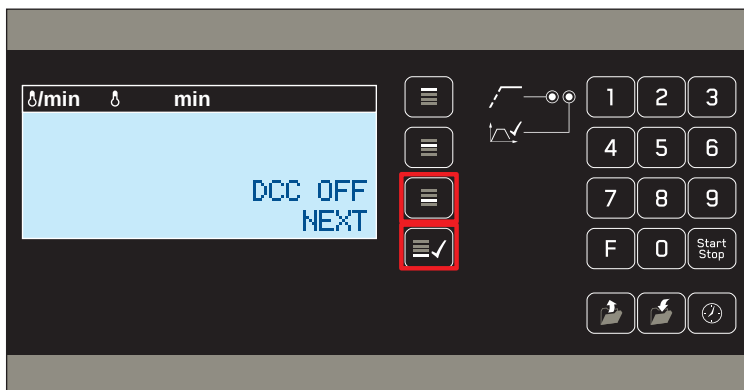


S1 - S9  → 

4. Choose options

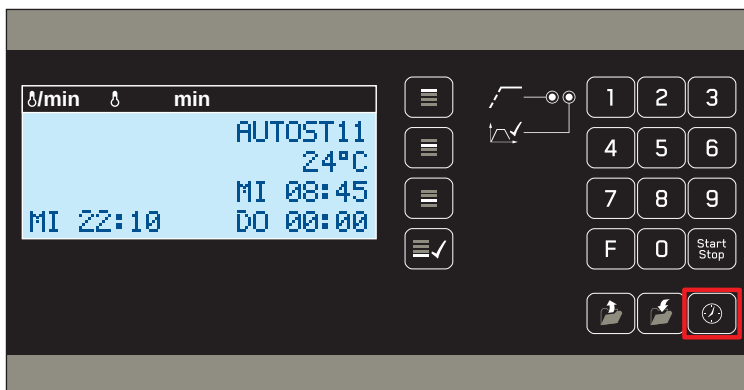
4. Optionen auswählen

13 Choice option „DCC“ Auswahl Option „DCC“



 → NEXT / DCC OFF
  → DCC ON / NEXT

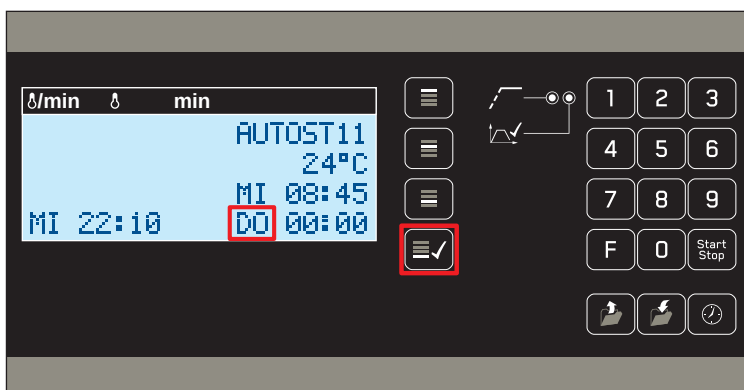
14 Autostart/Timer Autostart/Timer





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

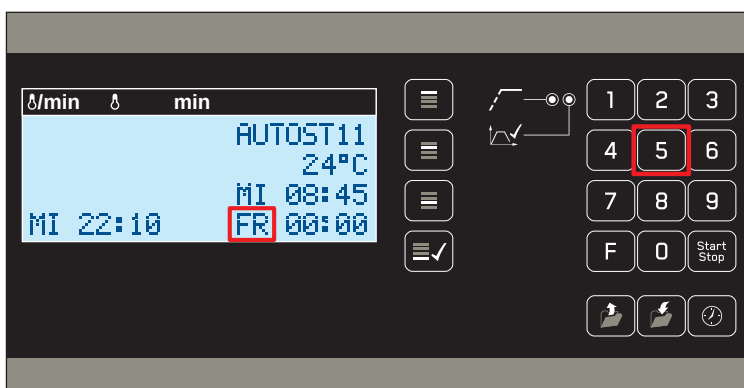
15 Autostart/Timer Autostart/Timer





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

16 Autostart/Timer Autostart/Timer



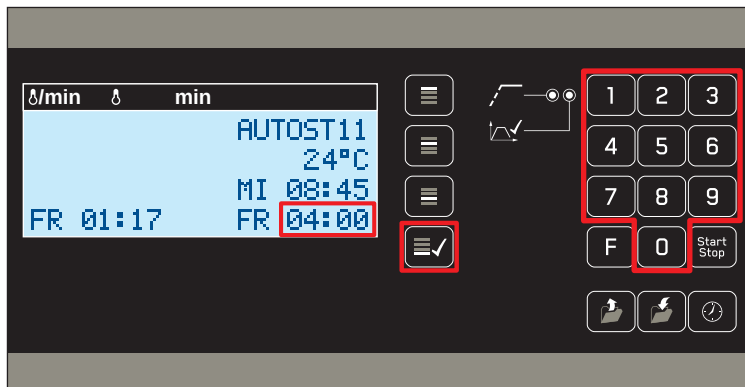


Choose day: 5=Friday (example).
 Wochentag wählen:
 5=Freitag (Beispiel)

4. Choose options and start process

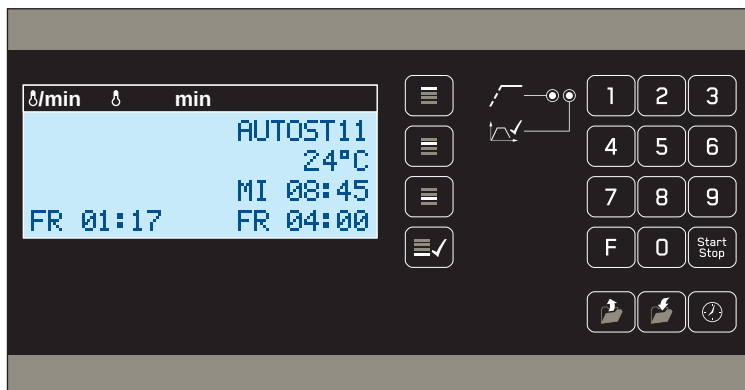
4. Optionen auswählen und Prozess starten

17 Autostart/Timer Autostart/Timer



Set finishing time.
Uhrzeit für die Fertigstellungszeit eingeben.

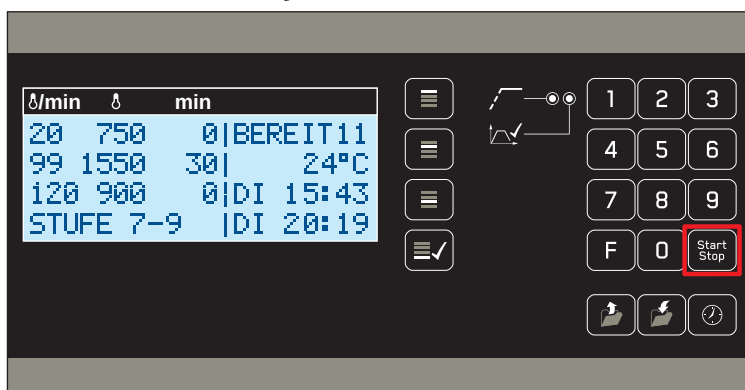
18 Autostart/Timer Autostart/Timer



Start time: Friday, 01:17 h
Finishing time: Friday, 04:00 h

Startzeit: Freitag, 01:17 Uhr
Fertigstellungszeit: Freitag, 04:00 Uhr

19 Manuel start process Prozess manuell starten

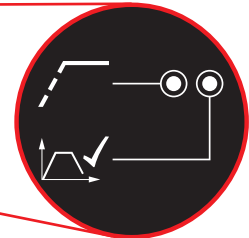
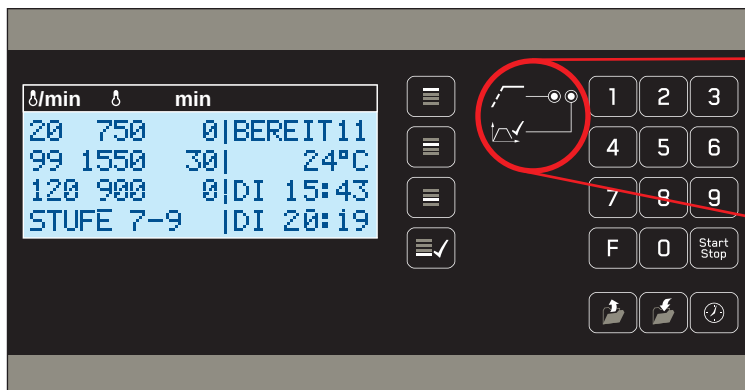


Start Stop

5. LED signals during the process

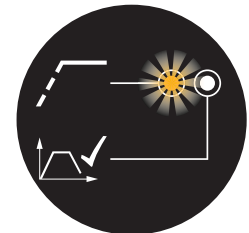
5. LED Signale während des Prozesses

20 Light signals LED-Signale



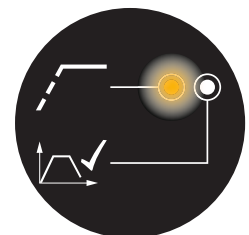
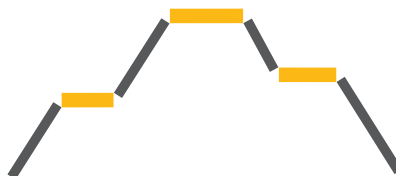
Heat up phase:

Aufheizphase:



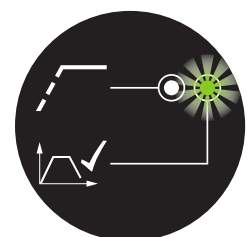
Holding phase:

Haltephase:



Successful process finish:

Erfolgreiches Prozessende:



A series of horizontal lines for writing, spanning the width of the page.



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