

Service menu BIAx 35, 45, 45P, 45S

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1. About this document

These instructions describes the Service menu of the machine in which various functions are tested and machine specific parameters may be modified.

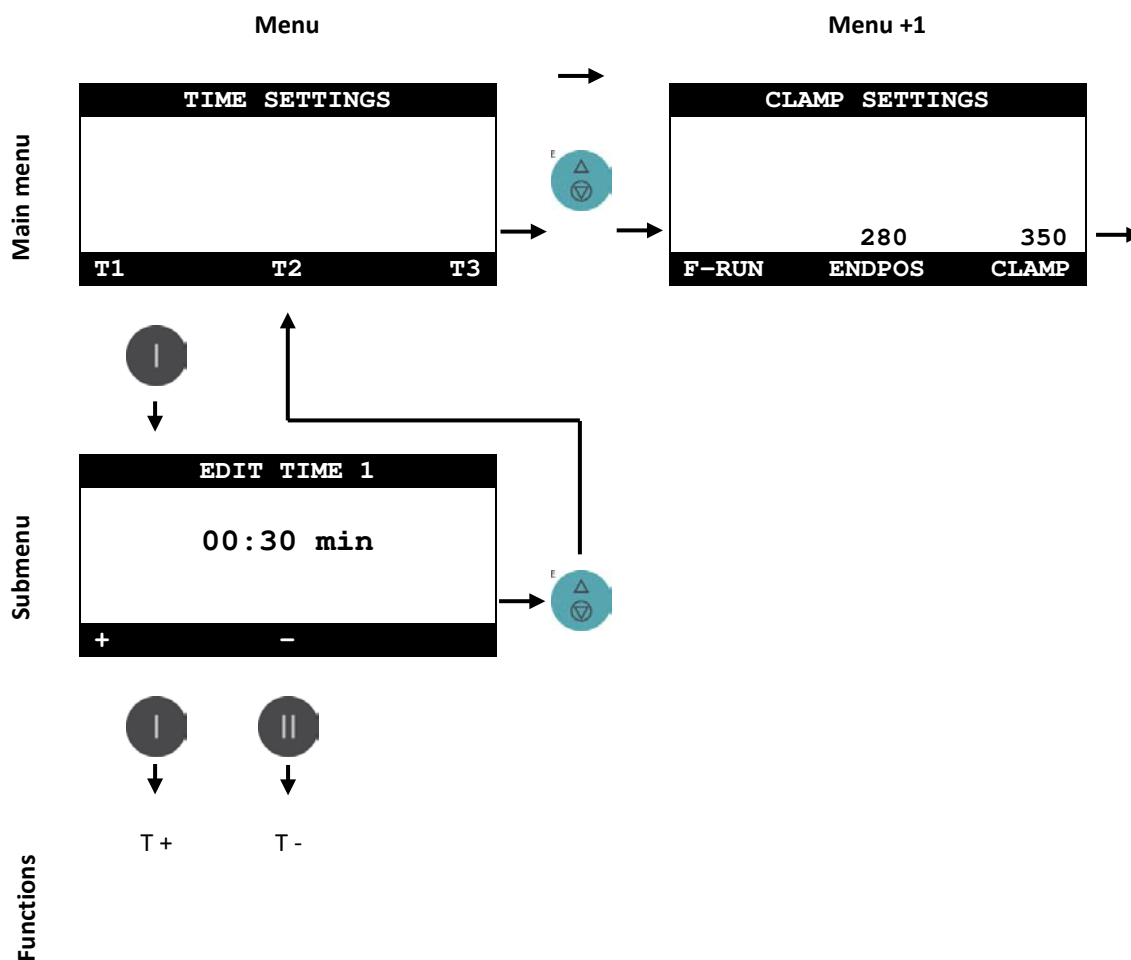
Please carefully read the operating instructions provided with the machine prior to all work in the service menu and pay particular attention to the safety and warning indications contained therein.

These instructions are intended for trained personnel.



2. Navigation in service menu

Use keys E, I, II and III to navigate in the service menu. The operating of further menu items is analogous to the example provided below:



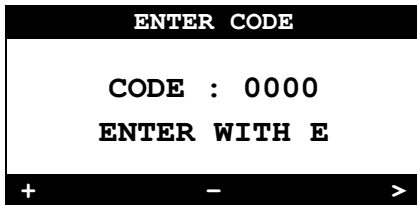
2.1 Keys function

	Key for DOOR	<ul style="list-style-type: none"> • Opening of the door
	Key E	<ul style="list-style-type: none"> • Calling up next menu item • Back to main menu • Confirm entries
	Key I	<ul style="list-style-type: none"> • Calls up left submenu • Activates left function
	Key II	<ul style="list-style-type: none"> • Calls up middle submenu • Activates middle function
	Key III	<ul style="list-style-type: none"> • Calls up right submenu • Activates right function

3. Activate service menu

3.1 Call up login

In order to call up the service menu first use the main switch to switch the machine off. Simultaneously press keys E and III and keep pressed down whilst you switch the machine on via the main switch. After a short period **ENTER CODE** will appear on the display.

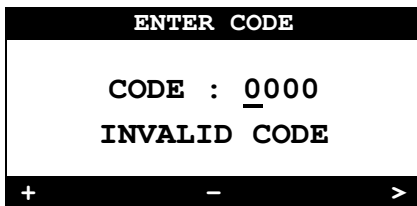


3.2 Enter code

Enter the code **3970** on the keypad to activate the service menu and finish the entry with key E.

3.3 Code entry error

With incorrect code entry the display will flash; switch the machine off via the main switch and repeat the entry procedure.



4. Menu structure

TEST			
D-LOCK	*	FUSE	*
DOOR	-	E STOP	*
POS	-	M-LCK	--
F-RUN		M-LOCK	



SELECT MOTOR	
DOOR	SLIDER

At BIAX 45S and BIAX 45P only.



SET TIME		
0 : 30	1 : 00	2 : 00
T1	T2	T3



SET CLAMP FORCE	
247	
HIGH	



SET CLAMP PAR	
280	
F-RUN	ENDEPOS



SET SPEED

10 130

LOCK FAST



SET DOOR

YES NO YES

DOOR START UCLMP



SET LANGUAGE

ENGLISH

Press E to quit

SELECT



SAVE CHANGES

SAVE RESTORE EXIT

5. Menu description

5.1 TEST

TEST			
D-LOCK	*	FUSE	*
DOOR	-	E STOP	*
POS	-	M-LCK	--
F-RUN		M-LOCK	

The function of important components can be tested in the main menu under TEST.

D-Lock	=	Door locking system
DOOR	=	Safety switch
POS	=	Proximity switch position
FUSE	=	DC Safety fuse
E STOP	=	Emergency stop button
M-LCK	=	Mixing Unit locked/unlocked

The door can be opened using the DOOR key in order to test the safety switch and door locking system function.

* = Funktion ON / - = Funktion OFF

F-RUN	=	Submenu TEST FREERUN
M-LOCK	=	Latching pin Mixing Unit

5.1.1 TEST FREERUN

TEST FREERUN		
min	actual	max
0	0000	0
CLOSE	OPEN	

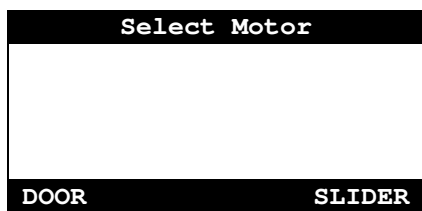
The function of the clamping motor is tested in the TEST FREERUN submenu

CLOSE	=	Close mixing unit
OPEN	=	Open mixing unit

The clamping motor runs continuously while the key is held down.

While running, the minimum, current and maximum performance of the mixing unit is shown in the display info area. This is a good indicator of the degree of soiling of the spindles.

5.2 SELECT MOTOR



Testing slider and door motor. This funktion is only available at BIAX 45S and BIAX 45P

DOOR = Test DOOR motor
SLIDER = Test SLIDER motor

IMPORTANT:

5.2.1 DOOR MOTOR



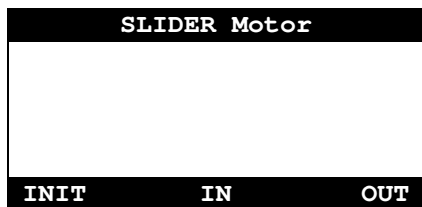
Testing the door motor.

OPEN = Opens the sliding door
CLOSE = Closes the sliding door

IMPORTANT:

In order to test the slide motor, the door has to be opened first!

5.2.2 SLIDER MOTOR



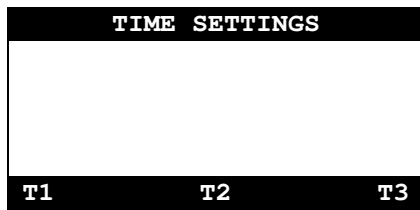
Testing the slide motor. This funktion is only available at BIAX 45S. The door has to be opened prior aktivating this funktion!

INIT = Initializing the slide
IN = Moving the slide IN
OUT = Moving the slide OUT

IMPORTANT:

In case the slider is not in IN or OUT position an INIT shall be done.

5.3 SET TIME

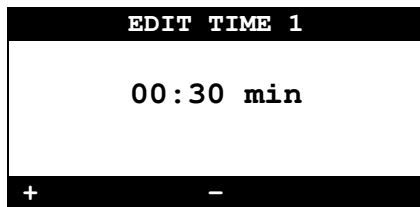


The mixing times 1-3 are set in SET TIME main menu.

T1 = **Set mix time 1**

T2 = **Set mix time 2**

T3 = **Set mix time 3**



Keys I to III can be associated with 3 different mixing times. The work setting can be modified in 10s steps (m:ss) where necessary.

IMPORTANT:

A too long mixing time can heat up the mixture. This might result in a damage of the can and/or the mixture.

5.4 SET CLAMP FORCE



The clamping pressures can be set in the SET CLAMP FORCE menu.

HIGH = Clamping force

IMPORTANT:

With a too low clamping force the can can become loose during the mixing process. With a clamping pressure set too high the can can burst when clamped.

After the clamping force has been set a test run must always be carried out with original material in original container.

5.4.1 SET CLAMP HIGH



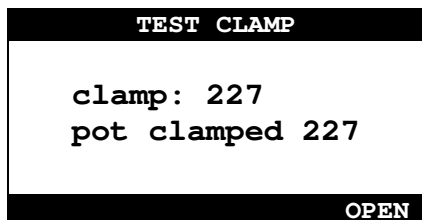
The CLAMP HIGH parameter is valid for all cans sizes.

Setting of the clamp force.

+ = Increase value

- = Decrease value

CLAMP = Can is clamped



To test the clamping force place a suitable can or a measuring device in the centre of the clamping plate.

The clamping routine is started via the CLAMP function.

After the end of the clamping procedure "pot clamped XX" is shown on the display.

The mixing unit can subsequently be reopened via OPEN.

OPEN = Mixing unit opens

IMPORTANT:

The CLAMP parameter does not correspond to the clamping force. The clamping force resulting from the parameter must be determined with a suitable measuring device.

5.5 SET CLAMP PAR

SET CLAMP PAR	
280	
F-RUN	ENDPOS

Setting of parameter for the clamping mechanism.

F-RUN = **TEST FREERUN**
ENDPOS = **Mixing unit end stop**

5.5.1 TEST FREERUN

TEST FREERUN		
min	actual	max
0	0000	0
CLOSE	OPEN	

The function of the clamping motor is tested in the TEST FREERUN submenu

CLOSE = **Close mixing unit**
OPEN = **Open mixing unit**

The clamping motor runs continuously while the key is held down.

While running, the minimum, current and maximum performance of the mixing unit is shown in the display info area. This is a good indicator of the degree of soiling of the spindles.

5.5.2 TEST ENDPOS

TEST ENDPOS		
280		
OPEN	CLOSE	EDIT

Set mixing unit end stop.

OPEN = Test upper end stop
CLOSE = Test lower end stop
EDIT = Modify ENDPOS parameter

EDIT ENDPOS	
280	
+	-

The mixing unit is opened and closed via a DC motor. The power consumption is monitored.

When the end stop is reached the power drawn by the motor exceeds the set value of the current threshold (ENDPOS) and the clamping motor is shut off.

The factory set parameter for the end stop has been selected so that the mixing unit reaches the end position without a prior switching off.

Before modifying the parameter check whether the threaded spindles are dirty or damaged. If necessary, clean and apply grease to the spindles as described in the operating instructions.

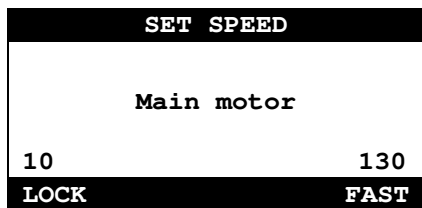
A larger value for the DC-MOT ENDPOS means a higher current intake and thereby a larger force of the clamping motor.

The value must not be set too high, otherwise the threaded spindle could jam.

IMPORTANT:

The ENDPOS parameter **does not influence the clamping force!**

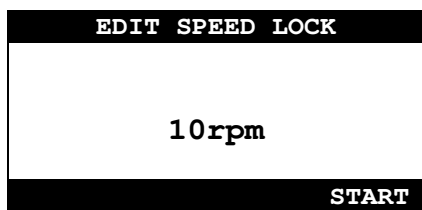
5.6 SET SPEED



Setting the speed of the mixing unit.

- LOCK** = **Speed for positioning**
- FAST** = **Mixing speed**

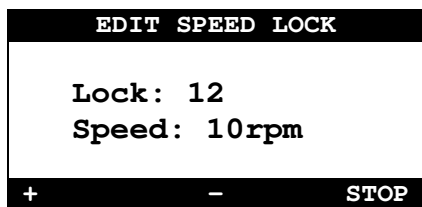
5.6.1 EDIT SPEED LOCK



The LOCK speed is used to turn the mixing unit after finishing the mixing cycle back to 12 o'clock position.

A value of 10rpm is recommended for positioning and should not be changed!

To adjust the speed, first insert a suitable **empty** can according to the requirements described in operation manual.



- START** = **Activating the mixing procedure**

Press START to activate the clamping procedure. The can will be clamped automatically and the mixing unit starts turning in LOCK speed afterwards.

- +** = **Increase value**
- = **Decrease value**

- STOP** = **Determinates the mixing**

Adjust the LOCK value until the requested LOCK speed (rpm) is shown in the display.

The update of the LOCK speed value (rpm) is slightly delayed. Therefore wait after changing the LOCK value until the speed value is updated.

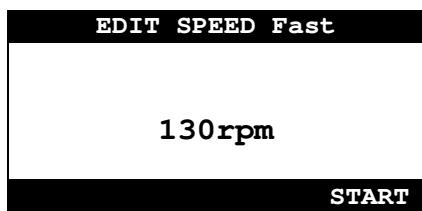
To finish the adjustment press STOP, the mixing unit is automatically moved to 12 o'clock position and unclamped.

IMPORTANT:

The adjustment of any SPEED parameter in the service menu must be done with an empty can.

A trial run with a full can must be conducted when first starting the machine after any speed adjustment.

5.6.2 EDIT SPEED FAST



The SPEED FAST parameter is valid all cans sizes.

Adjusting SPEED HIGH is similar as described under 5.6.1 EDIT SPEED LOCK

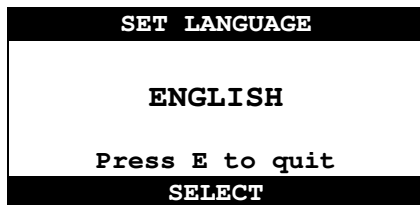
5.7 SET DOOR MENU



Setting of door options.

- DOOR** = Door opens automatically after the mixing.
UCLMP = Manual release of mixing unit is permitted when the door is open.

5.8 SET LANGUAGE MENU



Language setting for the main menu

- SELECT** = Language selection

The service menu language cannot be modified.

5.9 SAVE CHANGES MENU



Save changes.

- SAVE** = Saving of modifications
RESTORE = Restoration of previous parameter
EXIT = Leaving the service menu

IMPORTANT:

To adopt the modifications in the service menu the SAVE function must be used.