

# TUNING TABLE

**AKKO**  
*modular* **tune**

USING THE ACCESSORIES

**AKKO**  
Thielmann **fixx**  
*Akkordeon - Service*

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## AKKOfune modular

Accessories

### Using the Accessories

The pure AKKOfune modular system consists of the **CONTROL**, the **BlowBox**, and the under-table **Air-Hose FLANGE**.

Already having a tuning station in your workshop you can now make the upgrade for consistent and continuous airflow with your desired air pressure.

There is a number of accessories available to make the most of **AKKOfune modular**.

First of all there is the worktop. This is a special plate with a number of possibilities.

- Size: 600 mm wide, 380 mm deep and 30 mm thick
- Covering: durable saddlery leather, rough side up for good air seal
- Ø47 mm opening in the center, 100 mm from the front edge
- Insertion slot for “blow hole” inserts, with locking pin
- Boreholes underneath the opening for mounting the **FLANGE** \*
- Embedded M6 threads for fixing accessories on the plate
- Black lacquering

\* (see Fig. 9 and 10)

Depending on the version AKKOtune *DESK* or *DESK+* there are various associated accessories.

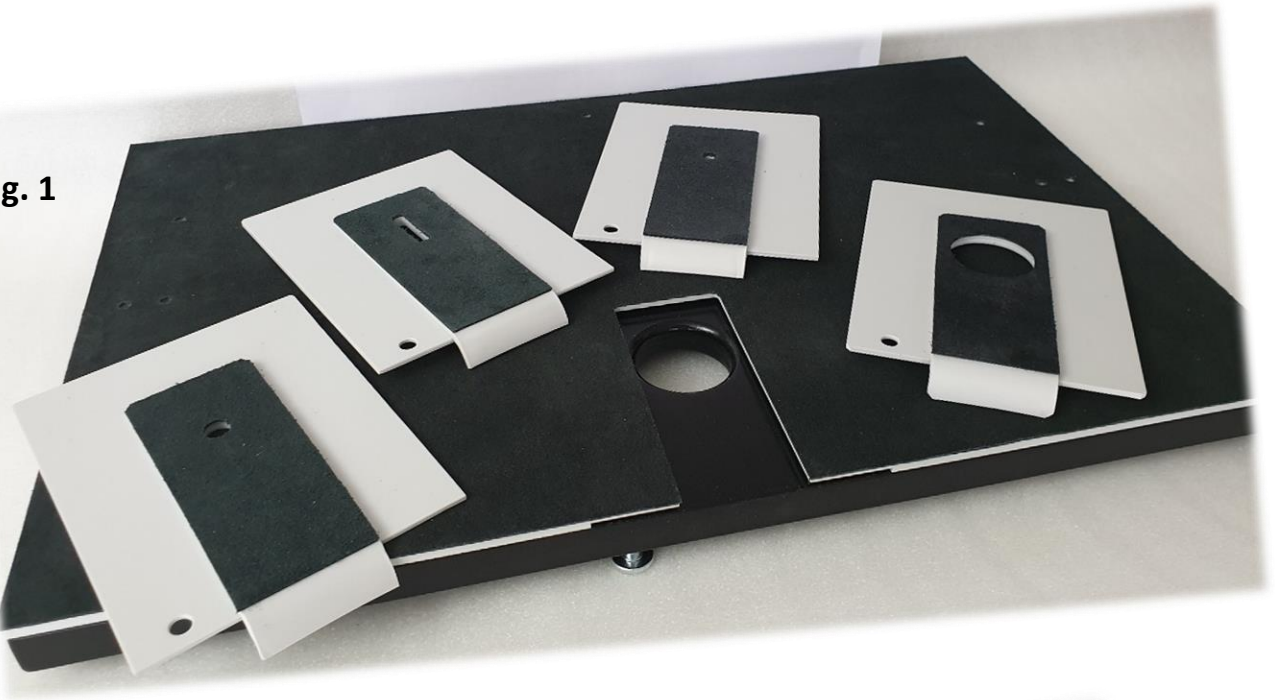
**AKKOtune *DESK***

- 4 blow hole inserts - round holes:
 

large	∅ 45 mm
small	∅ 8 mm
medium	∅ 14 mm

 and a slot 8 mm x 35 mm

**Fig. 1**



- A plain reed block guide

**Fig. 2**



The reed block guide can be fixed by two included star grip screws behind the blow hole and to slide a reed block along over the hole.



- Hold-downs for left and right side to fix an instrument on the worktop

Fig. 3



If you want to make a complete tuning analysis of an instrument, you may separate the bass module from the bellows and place bellows and treble module over the large blow hole.

The hold-downs can be flexibly fixed in one of the 3 thread on each side. By pushing the rubber pads onto the edge of the instrument you may clamp it firmly on the covering leather. Without clamping the instrument, it can lift when the air rises and the air loss may falsify measurement results.

If the instrument does not provide edges you can use the

- Clamping bracket



Fig. 4

and place the hold-down arms on the adjustable booms of the bracket.

A special version with long arms is available for bandoneons.



Fig. 5

## AKKOfune DESK+

Additionally to the included accessories for *AKKOfune DESK* as shown above **DESK+** is equipped with two microphones for detecting the reed sound and out it via USB.

- The internal microphone no.2 is integrated inside the blow hole. It is connected to the Mic Selection panel at the right front edge of the worktop.

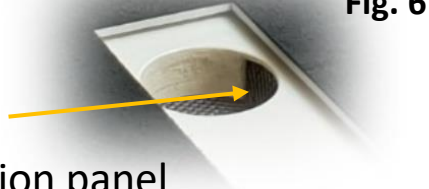


Fig. 6

- The external microphone no.1 is a gooseneck microphone that can be mounted at the rear edge of the worktop. It has a cable with 3,5mm jack that fits into the socket in front of the mounted base.

The 3,5mm jack bush is not suitable for connecting normal microphones. Microphone amplifiers with automatic gain control are incorporated in the microphones in the gooseneck as well as in the blow hole.

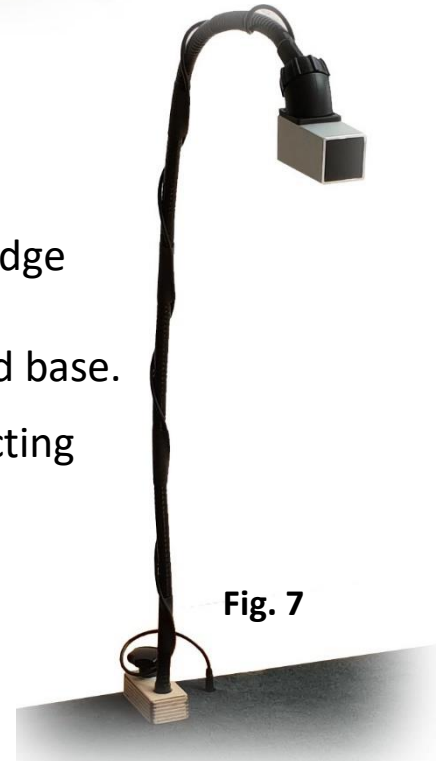


Fig. 7

- The Mic selection panel at side of the worktop provides a USB output below the front edge. It will be powered as soon as you connect it with your computer.



Fig. 8

Three little pushbuttons allow you to select either the internal or external or both microphones for USB output. Selection is indicated by LEDs.

! Desk+ has a bottom cover and the total thickness is 34 mm.

### **Foam mat**

AKKOfune DESK(+) is delivered including a foam mat for equalisation of uneven bellows' rims. This is supplied without any cut-out, which can easily be made with a sharp knife by yourself according to your needs.

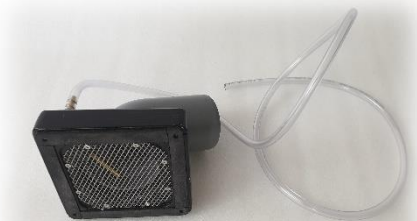
### **Mounting AKKOfune Desk(+) on a workbench**

Because of the installation beneath and the locking pin for the blow hole insert the worktop cannot be mounted plainly on a table. The table needs a cutout for Flange and locking pin – or for Desk(+) throughout. See next page.

### **Mounting the Air-Hose *Flange* under the worktop.**

The worktop bottom has already 4 boreholes with 85 mm pitch in a square for the 4 screws provided with the Flange. The flange plate has a sealing and can be directly screwed under the worktop.

The flange can be swivelled around.



**Fig. 9**

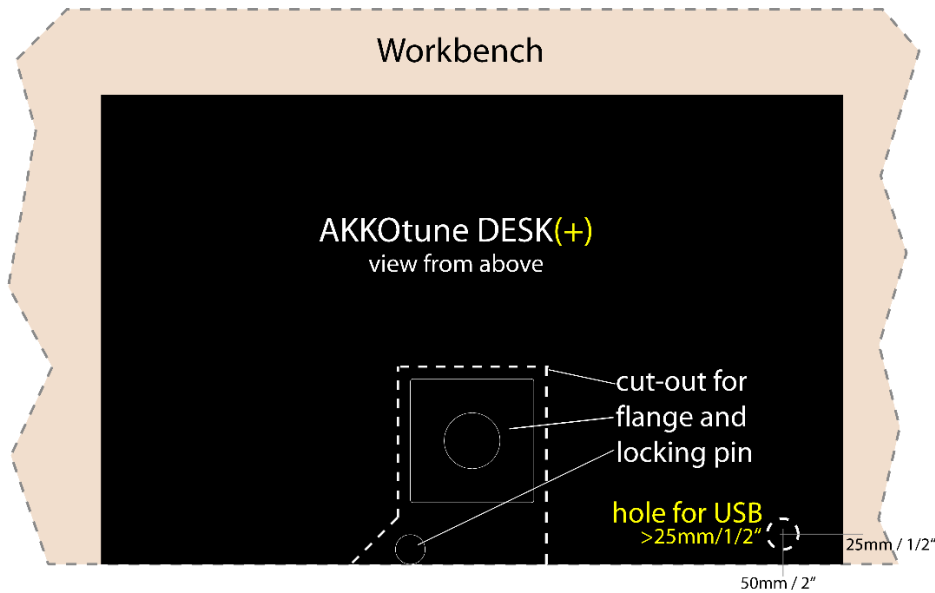


The pressure probe connection should be placed in the rear in order not to interfere with sitting operators legs.

**Fig. 10**

## Mounting AKKOfune DESK(+) on a workbench

As AKKOfune DESK has protrusions on the bottom it needs to be mounted on a flat surface with cut-outs. The easiest way is to make a cut-out for the flange and the locking pin together. AKKOfune DESK+ needs one more cut-out (or hole) on the right front edge for the USB connector.



Make sure that the workbench has enough stability after making the cut-outs.

Fig. 11

Another option is to place the entire AKKOfune DESK in a section of the workbench.

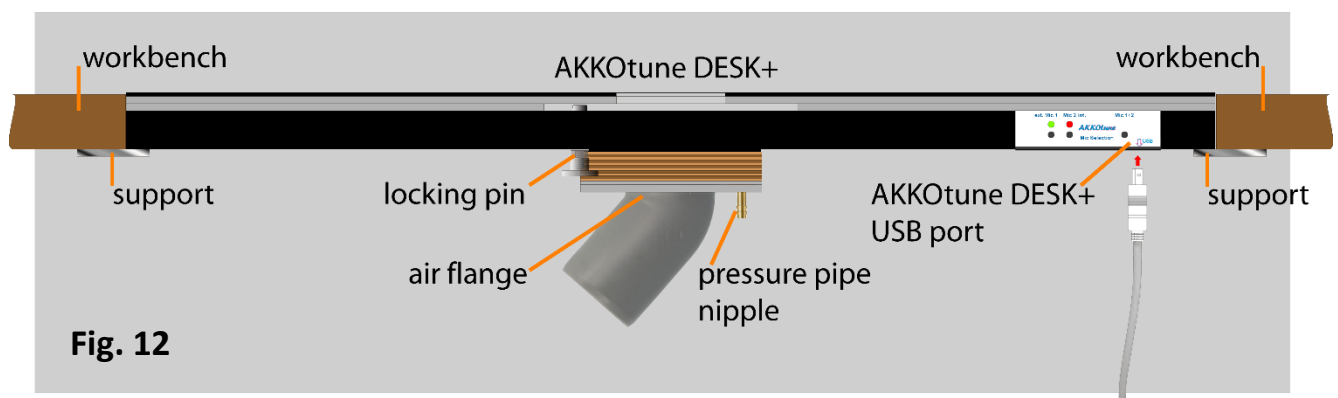


Fig. 12

The air flange can be turned 360°; a suction hose with 50mm/2" inner diameter will fit on the flange pipe. The pressure pipe is a flexible silicone hose. Both hose can be fixed with a ty-rap.



## Further Accessories

➤ to be used with *AKKOfune DESK*

- Microphone Gooseneck

If you do not have the version AKKOfune DESK+, you might want to install a gooseneck with microphone clip.

This is available as a special accessory and can be mounted at the rear edge with the M6 thread.



**Fig. 13**

- Pre-Tuning holder for 3 single reed plates

Some instrument types (e.g. Styrian Accordion) have three reed plates for the same tone, but two of them slightly de-tuned for an intense tremolo. This holder is for same reed plate widths of 15,5 – 16,5 mm and lengths between 20 and 70 mm. If only one or two reed plates shall be operated the remaining tracks can be closed by pushing the locking sliders to the far end. The holder is available for use with any tuning table or built up as a blow hole insert for AKKOfune DESK.



reed plates inserted

**Fig. 16**



reed plates locked

**Fig. 17**

- Universal Pre-Tuning holder for single reed plates

The universal holder can accommodate single reed plates for direct tuning between 15 and 25 mm width and up to 90 mm length.

2x for 15-15.9 mm, 2x for 16-16.9 mm, commencing with 1x 17-17.9 mm, and so on .... up to 1x 24-25 mm. Each track has its own sliding valve. The locking sliders are secured in their position with knurled knobs.

The tracks holding the reed plates are only 2 mm deep, so the reed plates protrude over the edges and the reeds can be handled directly for tuning.



Fig. 18



Fig. 19

It is possible to place up to 3 reeds side by side in neighbored tracks and measure the beat frequency for tremolo tuning. If you want to measure only 2 reeds close one valve slider. This works especially in tracks 1-3 and 3-5.

For use with any tuning table or as blow hole insert for AKKOfune DESK.

- Holder for bandoneon reed plates



Fig. 20

The bandoneon reed plate holder accommodates reed plates of a width of up to 90 mm.

The reeds are held down by the guide and movable clamp and can swing freely in a slot between two durable foam stripes with excellent air seal against the neighbored reeds and valves. Works for air PUSH and PULL.

The dimensions of the reed plates may also fit for bayan reed plates.

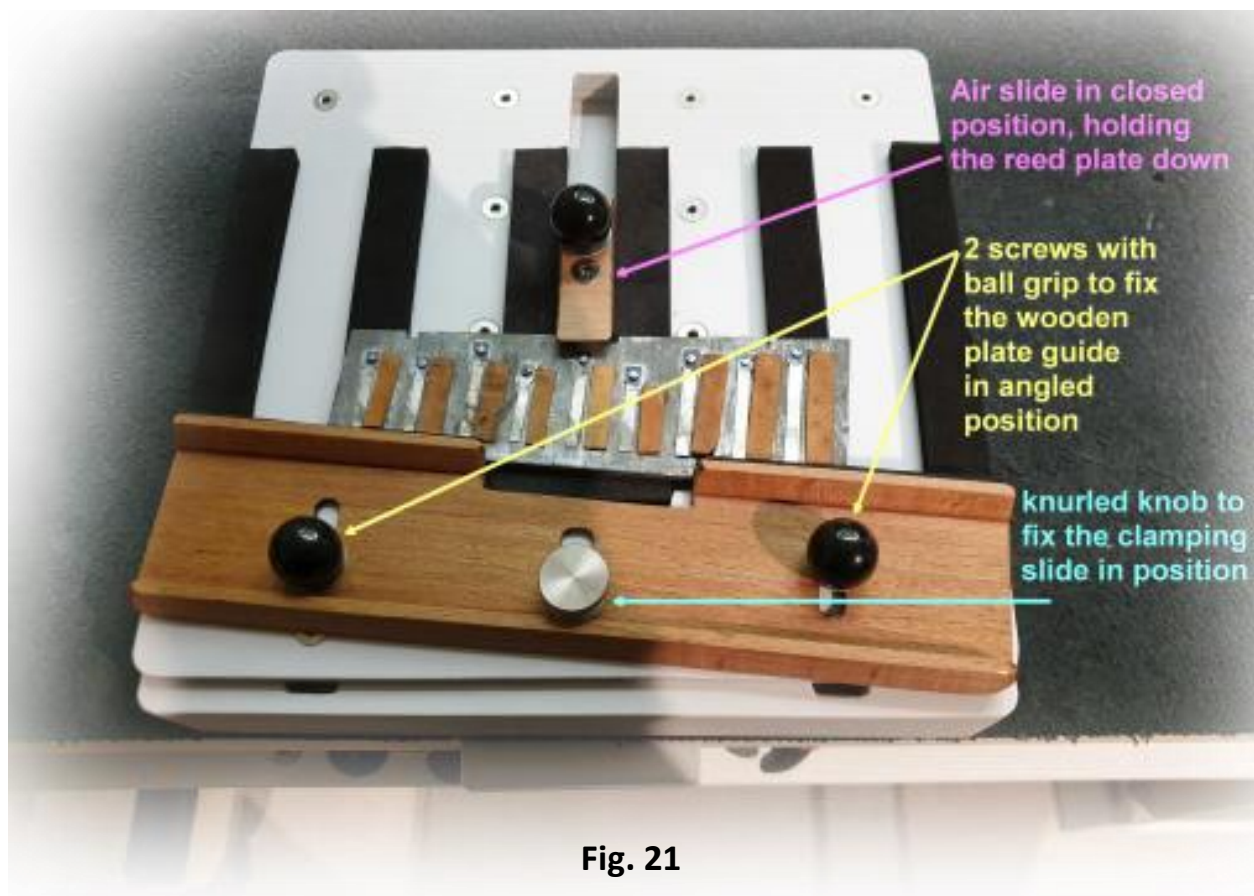


Fig. 21

- Holder for bayan reed plates
- Holder for mouth harp reed plates

Similar to the one for bandoneon, but larger  
 Similar to the one for bandoneon, but smaller

## Accessories

- to be used with *AKKOfune CONTROL*
- AKKOfune Foot Switch

This very rugged special foot switch has it's own connection socket at the bottom of AKKOfune *CONTROL*. Two large pedals allow for immediate start of air upwards if you kick the right one and air downwards if you kick the left one.

If you release the pedals the air flow will stop.



**Fig. 22**

- Pushbutton panel (not for ATmLE)

Fig. 23

Pushbuttons as repetition of CONTROL's front panel

Complete with 1.5 m cable and connector ready to plug-in.

Dimensions on request or as agreed

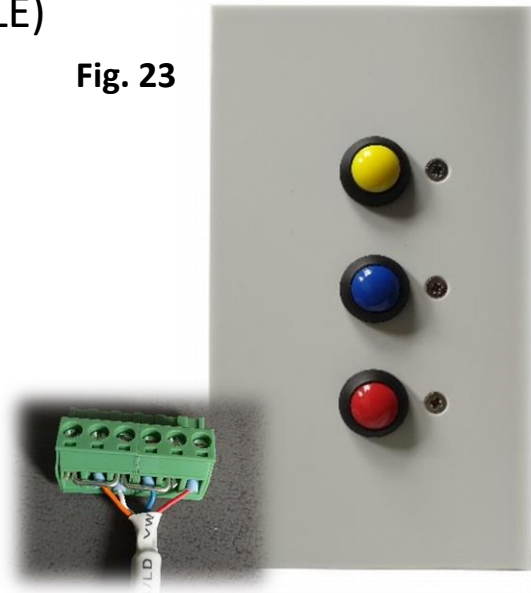


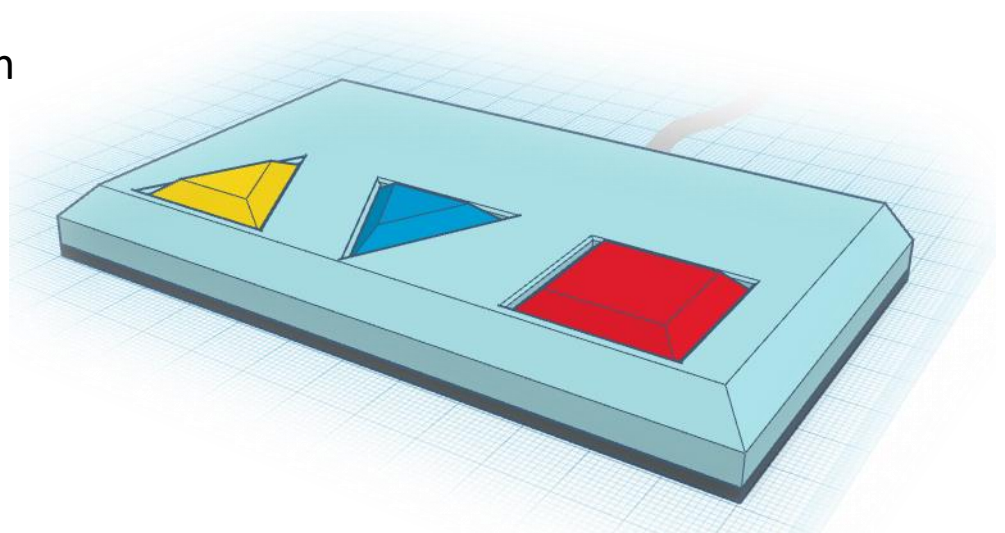
Fig. 24

- Flat desktop switch panel (not for ATmLE)

For flexible placing on your workspace

With smooth pushbuttons for UP, DOWN and STOP  
Complete with 1.5 m cable and connector.

12 mm high and with a non-slip bottom, it is placed on the workbench where you can best use it without getting in the way.



Contactless pushbuttons ensure safe triggering and a long service life

Fig. 25

- Desktop enclosure for *ATm CONTROL*

robust and heavy housing for the control unit, to be placed on the workplace.

Additional set of pushbuttons on the left side for left handed usage.

Tray on top for quick tool access.

Cable and pressure pipe feeding from the bottom and all directions

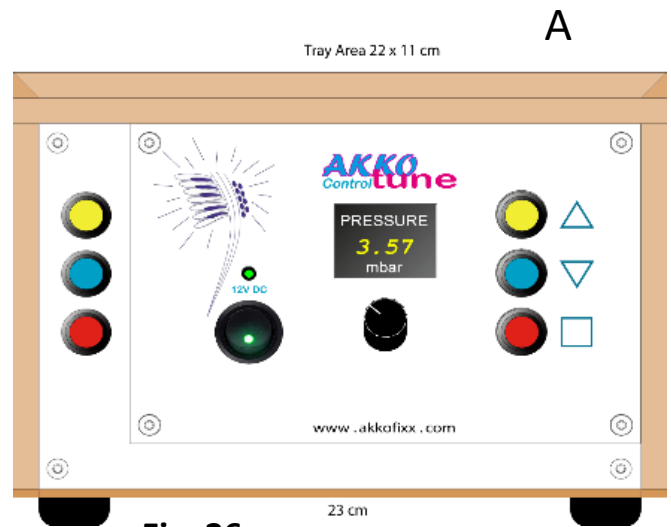


Fig. 26

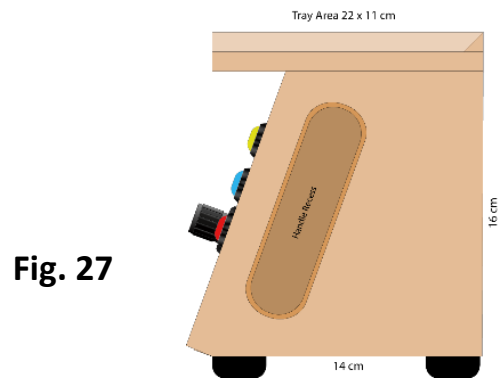


Fig. 27

Notes:

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