



User guide of SmartWheel©



Fig.1. Voice control box of SmartWheel©

The SmartWheel© voice control box (see. Fig.1), controls the whol rang of wheels of SmartWheel©.

It can be used with or without voice recognition. For this purpose in its basic version, the box operates in simple mode, This is the first default mode of operation. In option "voice recognition", the box has three other modes of operation, two headsets jack (2,5mm and 3,5mm) suitable with the most commercial headsets and an additional tricolor LED positioned between the two headsets jack (see. Fig.2). This LED gives an indication of the active mode of operation.

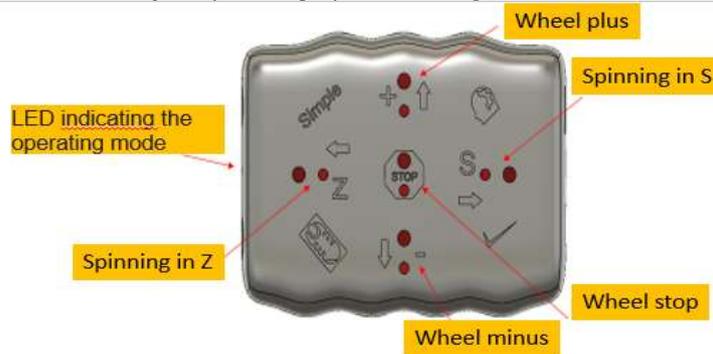


Fig.2. The command's push buttons of SmartWheel© box

On power up, the system starts in its "Simple" operation mode without learning. This is the 1st basic mode, there are other modes of operation in particular, voice control modes with and without learning. the 3rd figure illustrates the different modes of operation of the SmartWheel © box.

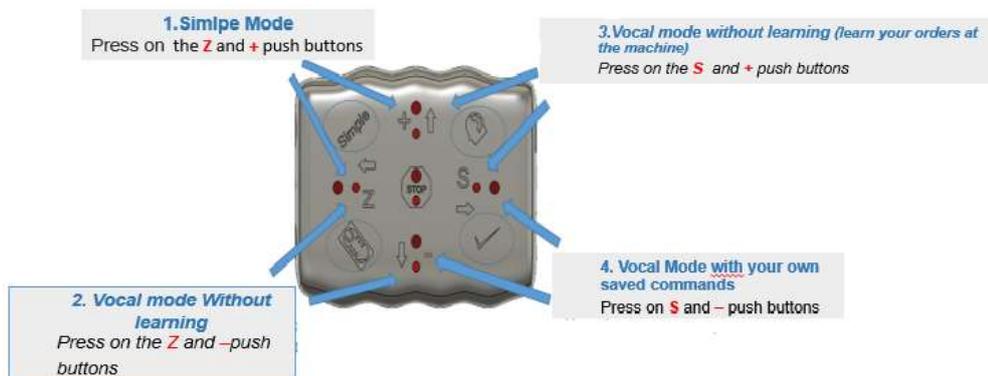


Fig.3. Operating modes of SmartWheel©

Basic Mode

1. Simple Mode

The Simple mode is a default mode. To return to this mode, press the Z and + push buttons simultaneously

The indication LED of the operating mode is then orange

In this mode, one press on the S push button makes the wheel turns in the S-direction.



Attention, if the wheel is spinning and you want to change the direction of rotation, from S to Z for example, the engine stops. It is a security that allows you to preserve your work of spinning in the event of error of order on your part. By pressing again the Z or + push buttons, the engine turns in the opposite direction white a minimum speed. It's possible to press the "Stop" key to stops the engine.

Voice Options

2. **Vocal mode Without learning**

Vocal mode **Without learning** is a mode called "Speaker independent", It can be used without prior learning.

To use this mode, simultaneously press the Z and – push buttons.

The indication LED of the operating mode is then green.

The recognized voice commands are three and they are in English:

- Wheel Plus (Rouet Plus)
- Wheel Minus (Rouet Moins)
- Wheel Stop (Rouet Stop)

The direction of rotation, spinning in S or Z is done by long press on the key (S) or the key (Z) respectively.

As in simple mode, security helps preserve your spinning job

A return sound validates each command of the user.

For example, if you say "Wheel Plus", Smart Wheel © will answer "Wheel Plus" in English. If you press the S push button (long press) , SmartWheel © will answer you in English "Twist S".

3. **Vocal mode without learning (learn your orders at the machine)**

The operating mode with learning and resetting of the commands can be accessed by simultaneously pressing the S and + push buttons

The indication LED of the operating mode is then red

In the following cycles, the user can teach the machine his own voice print for the S, Z, +, - and Stop commands, for this, the user must keep holding down the S, Z, +, - or stop push buttons, When the LED corresponding to the key pressed flashes orange, the user must pronounce his own voice command.

For example, you want to save your command " faster " In this case, press the + push button until the LED corresponding to this button (+) blinks orange. And say "faster".

Then the user must repeat this operation a second time for the same command by holding down the finger on the button, the Learning of each command is validated by a BEEP on the speaker of the headset. Once all the commands learned by the machine, the complete learning is validated by two BEEP and the 5 LEDs all turn green.

The user can now order the SmartWheel © with his own commands.

4. **Vocal Mode with your own saved commands**

The operating mode with learning without resetting the commands can be accessed by simultaneously pressing the S and - keys. **The LED of operating mode indication is red**, the user can now order the Smart Wheel © with commands already learned by the machine.