Zing Speak Tutorial

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What is Zing Speak?   *Video*

- **Zing Speak** is a feature in the KNK Zing plug-in, beginning with version 2.0. It allows you to communicate by voice with the computer to ask questions and control settings in the **Cut with Kic-N-Kut Zing** window.

Why would I want to use Zing Speak?

- There are several situations in which **Zing Speak** is particular handy:

    ◊ Print and cut applications where you are standing at the Zing, directing the laser dot to each registration mark

    ◊ Test cutting materials in which you are making changes in the settings and executing cuts from the **Test Cut** menu. It's more convenient to be in front of the Zing the entire time versus going back and forth to the computer.

    ◊ Calling up presets (material cut settings) you've already created and added to Make The Cut.

- It's also "just plain fun" to use! The vocabulary is rich in variations and I quickly found myself hooked on using it!

What do I need so that I can use Zing Speak?

- You will need:

    ◊ KNK Zing with Make The Cut, of course! This is a Windows application only, but it will work with Windows XP, Vista, 7 and 8.

    ◊ Desktop microphone or a headset with a microphone

    ◊ Speakers - either built-in speakers in your computer or accessory speakers plugged into your computer.

    ◊ XP owners - you will probably need to install Speech SDK51. It is installed with Microsoft Office. But if you cannot get **Zing Speak** to initiate, download and install again from this link:

    http://www.microsoft.com/en-us/download/details.aspx?id=10121

How do I install Zing Speak?

- **Zing Speak** is a part of the KNK Zing plug-in 2.0. Just download and install this plugin.

How do I initiate Zing Speak?

- When you enter the **Cut with Kic-N-Kut Zing** window, press **F4** or click on the down arrow in the top right corner:

Click here to open menu

Click here to open **Zing Speak**

- The following window will open:

Recognition Accuracy: refer to details below

Click **Voice Training** to link to Windows Speech Recognition Training (highly recommended!)

Microphone to be used

Speakers to be used

Option to have **Zing Speak** automatically activated

Click on **Begin** to activate **Zing Speak**

- Check what defaults are set for the **Audio Input** and **Audio Output** devices. If they are not correct, then go to Windows Control Panel and click on **Sound**. Defaults can be changed there.

- The **Recognition Accuracy** is a value the speech engine sends back as to how confident it is in what you said. The default is set at 80%. So it will execute the command if it is at least 80% confident. So, if you set it at 1%, then it will just execute most any command, no matter how confident it is. A setting of 100% means it will never make a mistake, but you have to speak perfectly.

- You may want to mark the option to **Run Zing Speak at Startup.** Since **Zing Speak** only works when the **Cut with Klic-N-Kut Zing** window is open, it saves time to have it automatically switch on each time you're ready to cut. Even when activated, you still have the option to change settings using your mouse or keyboard.

- If this is the first time you are using Windows voice recognition software on your Zing, it is highly recommend that you go through the **Voice Training**. This is an easy process of reading of a series of sentences so that your computer will learn how you pronounce certain words. You may want to also do a second session and you will see the option to do so, after you finish the first one. This definitely improves the recognition of commands when using **Zing Speak**.

How do I use Zing Speak?

- Once you have completed the **Voice Training,** you are ready to being using **Zing Speak**! You may ask questions about settings, change your settings, set the origin, turn on/off the laser, perform a test cut, call up a preset, check your connection, and execute a cut.

- The available commands have been written to allow for variances. For example, when inquiring about the current force, you can ask in any of the following ways:

  ◊ *What is force?*

  ◊ *What is the current force?*

  ◊ *What is my current force?*

  ◊ *Please, what is my force?*

  ◊ *… and other similar variations*

- Similarly, when changing a setting, there are a number of different ways to instruct the software, such as:

  ◊ *Set force to 80*

  ◊ *Please set the force to 80*

  ◊ *Turn the force to 80*

  ◊ *Force to 80*

  ◊ *Go ahead and set the force to 80*

- ◊   *Could you set the force to 80*

- ◊   … and other similar variations

- At this end of this tutorial is a *Quick Reference* to use as you learn **Zing Speak**. It shows one sample for every inquiry or command available**.**

- A more complete, but optional *Vocabulary Guide* of available words and terms is available to download here:

  http://www.iloveknk.com/Support/Tutorials/Make-The-Cut/

- You may never even need to use the complete *Vocabulary Guide*. If you do download the file, please do not be intimidated by the extent of the list. The purpose of such an extensive vocabulary is to simply cover the many ways users can state the same thing. For example, you may prefer to use the verb "*turn*" and not "*set*". That's fine! You may prefer to say "*What's my pressure?* instead of "*What's the force?"* Again, that's perfectly acceptable. A big thank you to Andy for providing us so many alternatives!

What else do I need to know?

Presets

- The settings for presets can be adjusted using **Zing Speak**, but to save a new one, you'll need to manually go to the drop down menu at the top of the **Cut with KNK Zing** window or press **F5** and then enter the name of the preset. From that point, however, you can use **Zing Speak** to pull up the settings for that preset by saying "*Use Preset* <name of preset>" or "*Please use Preset* <name of preset>" (and other variations).

Set Blade Origin

- As shown in the *Quick Reference,* there are different ways to set the **Steps** (**Move by** setting). You can specify an exact number of **Steps** from the limits of 4 to 1016 (e.g. *Set Steps 50*) or, if you need to set it to the lowest or highest limit, then just say "*Set Steps Minimum*" or "*Set Steps Maximum."* As with other functions, you can also use other terms, such as smallest and largest. Again, you'll adapt whichever terms are easiest for you to remember.

- When moving the blade carriage you can either start with the word "Move", as in "*Move 7 left*" (to move 7 steps to the left) or just say "*7 left.*" When moving forward or back, there are a number of alternatives, such as "*front","forward", "up", "back"," backwards"," down"*, etc. Note that these same commands are also used when performing a print and cut application.

Disabling

- Sometimes you may wish to leave the **Cut with KNK Zing** window open, but prefer to not have **Zing Speak** running. There are a number of ways to have Zing Speak temporarily shut off, such as saying "*Ignore me*" or "*Pay no attention to me*". There will be a confirmation and then **Zing Speak** will wait for reactivation using a phrase like, "*Pay attention to me.*" You can also turn off **Zing Speak** with several different phrases. Again, be sure to check the *Vocabulary Guide* for your choices.

Special notes

- There will probably be more to cover as users feedback their experiences. So, stay tuned! Please let me know, via an email to smccauley45@cox.net, how I can improve this tutorial and the *Vocabulary Guide*. Creating the guide was a very new experience for me so I know that there are things that can be done to make it more useful to everyone. Feel free to critique! Eventually, this tutorial and the guide will become a part of the KNK Zing with MTC User Manual.

- Thanks to Andy Heinlein, owner of Make The Cut, for this amaZing new feature! Thanks also to Bryan Williams and Chad Youngblut for testing and providing feedback to Andy. It's been an honor to be involved in documenting something so unique to the cutting world!

Zing Speak Quick Reference

This is a quick reference to samples of inquiries and commands within Zing Speak. There are many other word combinations which will work. For a more complete list, refer to the Zing Speak Vocab Guide here:
http://www.iloveknk.com/Support/Tutorials/Make-The-Cut/

Function	Command or Inquiry	Example of What To Say	Purpose of Inquiry or Command
Connection	Inquiry	Am I connected?	Find out if the Zing is still connected
	Command	Reconnect	Reconnect, if not connected
Speed	Inquiry	What is the speed?	Find out the current Cut Speed and Up Speed
	Inquiry	What is the cut speed?	Find out the current Cut Speed
	Inquiry	What is the up speed?	Find out the current Up Speed
	Command	Set the speed to "X"	Change both Cut and Up Speeds (range:1 to 20)
	Command	Set the cut speed to "X"	Change Cut Speed (range:1 to 20)
	Command	Set the up speed to "X"	Change Up Speed (range:1 to 20)
Force	Inquiry	What is the force	Find out the current force
	Command	Set the force to "X"	Change the Force (range:1 to 160)
Multi-cut	Inquiry	What is the multi-cut?	Find out the current number of passes for Multi-cut
	Command	Set the multi-cut to "X"	Change the Multi-cut (range:1 to 10)
Presets	Command	Use preset "X"	Change all settings to those for the preset you specify
Blade Offset	Inquiry	What is the blade offset?	Find out the current blade offset
	Command	Set the blade offset to "X"	Change Blade Offset (range: Off or from 1 to 95)
Cut Type	Inquiry	What is cut type?	Find out the current Cut Type setting
	Command	Set cut type to knife	Set Cut Type to Knife Point
	Command	Set cut type to wizzy wig	Set Cut Type to WYSIWYG
	Command	Set cut type to print and cut	Set Cut Type to Print and Cut
Set Blade Origin (open window)	Command	Set Blade Origin	Opens the Set Blade Origin window
Set Blade Origin (setting)	Inquiry	What are Steps set to?	Find out current setting for Steps (Move by)
	Command	Set Steps to Minimum	Set Steps to the minimum value of 4
	Command	Set Steps to Maximum	Set Steps to the maximum value of 1016
	Command	Set Steps to "X"	Set Steps from 4 to 1016
	Command	Move "X" left	Move specified number of steps to the left
	Command	Move "X" right	Move specified number of steps to the lright
	Command	Move "X" forward	Move specified number of steps forward/up
	Command	Move "X" back	Move specified number of steps to backwards/down
	Command	Use last	Move to last origin used
	Command	Zero Zero	Move to Home Origin
	Command	Finished	Blade origin is now set

Laser Control	Command	Laser on	Turn the laser light on
	Command	Laser off	Turn the laser light off
Test Cut	Command	Test cut Asterisk	Test cut the asterisk
	Command	Test cut Circle	Test cut the circle
	Command	Test cut Circle in Square	Test cut the circle in square
	Command	Test cut Double Circle	Test cut the double circle
	Command	Test cut Drop	Test cut the drop
	Command	Test cut Flower	Test cut the flower
	Command	Test cut Rhinestone	Test cut the rhinestone pattern
	Command	Test cut Square	Test cut the square
	Command	Test cut Star	Test cut the start
	Command	Test cut Zing Logo	Test cut the Zing logo
Cut Project	Command	Cut	Cut the current Project
Print and Cut	Inquiry	What are Steps set to?	Find out current setting for Steps (Move by)
	Command	Set Steps to Minimum	Set Steps to the minimum value of 4
	Command	Set Steps to Maximum	Set Steps to the maximum value of 1016
	Command	Set Steps to "X"	Set Steps to "X"
	Command	Set Steps to "X"	Set Steps from 4 to 1016
	Command	Move "X" left	Move specified number of steps to the left
	Command	Move "X" right	Move specified number of steps to the right
	Command	Move "X" forward	Move specified number of steps forward/up
	Command	Move "X" back	Move specified number of steps to backwards/down
	Command	Cancel	Cancel the PNC process
Disable	Command	Ignore me	Stop listening/responding to what is being said
Re-enable	Command	Pay attention to me	Start listening/responding to what is being said
Turn Off	Command	Turn Zing Speak Off	Shuts downs Zing Speak
Zing Plugin Version	Command	What version	Find out the current version of the Zing plug-in