

Velocity11 VSpin with Access2



Manufacturer: Velocity11
Model Number: VSpin-Access2
Web Address: www.velocity11.com

Optimized to meet the rigors of laboratory automation, the VSpin Integrated Microplate Centrifuge offers quiet operation and high throughput in a small, zero maintenance package. The dual bucket rotor accommodates two standard microplates at a time and is excellent for filtration protocols and spin-downs including cells and cellular debris. The VSpin plate buckets can be removed for cleaning and require no lubrication at the pivots. The VSpin is CE marked and is designed to meet UL requirements for laboratory centrifuges. The optional Access2 plate handler enables integration with robots unable to reach into the VSpin for plate positioning and removal. This high speed robot offers three second loading and unloading cycle times for a variety of plate types.

VSpin Access2: Commands

- ▶ **GetActiveXVersion()** - Retrieves the Access2 ActiveX version number.
- ▶ **GetFirmwareVersion()** - Retrieves the Access2 firmware version number.
- ▶ **GetHardwareVersion()** - Retrieves the Access2 hardware version number.
- ▶ **OpenDoor(bucketNumber)** - Opens the VSpin door presenting the bucket specified by the bucket number.

bucketNumber	Integer	Specifies the bucket number. Range of values: 1 to 2 .
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- ▶ **LoadPlate(bucketNumber, gripperOffset, plateHeight, speed, options)** - Load the plate into the VSpin bucket specified by the bucket number.

bucketNumber	Integer	Specifies the bucket number. Range of values: 1 to 2 .
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gripperOffset	Float	The distance from the bottom of the plate (in mm) where the center of the gripper should grab the plate. Range of values: 2.6 to 21.1 .
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plateHeight	Float	The plate height. Range of values: 2.6 to 48.3 .
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speed	Integer	The speed at which the gripper should move. Range of values: 0 to 2 .
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options	Integer	The options which should be applied to the load plate activity. 0 - no options set; 1 - ignore plate sensor; 2 - grip plates gently; 3 - ignore plate sensor and grip plates gently; 4 - assume maximum plate height; 5 - assume maximum plate height and ignore plate sensor; 6 - assume maximum plate height and grip plates gently; 7 - use all options.
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▶ **UnloadPlate(bucketNumber, gripperOffset, plateHeight, speed, options)** - Unload the plate into the VSpin bucket specified by the bucket number.

bucketNumber	Integer	Specifies the bucket number. Range of values: 1 to 2 .
gripperOffset	Float	The distance from the bottom of the plate (in mm) where the center of the gripper should grab the plate. Range of values: 2.6 to 21.1 .
plateHeight	Float	The plate height. Range of values: 2.6 to 48.3 .
speed	Integer	The speed at which the gripper should move. Range of values: 0 to 2 .
options	Integer	The options which should be applied to the unload plate activity. 0 - no options set; 1 - ignore plate sensor; 2 - grip plates gently; 3 - ignore plate sensor and grip plates gently; 4 - assume maximum plate height; 5 - assume maximum plate height and ignore plate sensor; 6 - assume maximum plate height and grip plates gently; 7 - use all options.

▶ **SpinCycle(velPercent, accelPercent, decelPercent, timerMode, time, bucketNumber)** - Runs a spin cycle.

velPercent	Float	Percentage of maximum velocity at which to spin the VSpin centrifuge. Range of values: 1.0 to 100.0 .
accelPercent	Float	Percentage of maximum acceleration at which to accelerate the VSpin centrifuge. Range of values: 1.0 to 100.0 .
decelPercent	Float	Percentage of maximum deceleration at which to decelerate the VSpin centrifuge. Range of values: 1.0 to 100.0 .
timerMode	Integer	The timer mode to use. 0 - total time. 1 - time at full speed. Range of values: 0 to 1 .
time	Integer	The spin time in seconds.
bucketNumber	Integer	Specifies which VSpin bucket to present after the spin.

▶ **Home()** - Homes the gripper.

▶ **Park()** - Parks the gripper. It moves the gripper head under and behind the Access2 plate stage, out of the way of the primary handling robot.

VSpin Access2: Errors

 **Error(number, description)** - Fatal or non-fatal VSpin error has occurred.

number	Integer	Number of the error.
description	String	Description of the error.

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