



RATS Grinder OPERATING INSTRUCTIONS

114 Potters Lane
Port Matilda, PA 16870
www.GISquaredTech.com

1. Remove your grinder from the case and select the desired wheel attachment
2. Attach the grinding wheel or disc to the grinder using the included tool
3. Hold the grinder upright with the battery receptacle located to the rear of the grinder.
4. Make sure the wheel is facing away from you while holding the grinder
5. Insert the battery into the rear of the grinder
 - a. This will set the zero position for your tool during operation



6. Place the grinder into the gripper of your robot with the GI² Logo facing to the left then close the grippers.





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7. Position the tool in front of the desired grinding/cutting location
8. Turn your gripper rotation speed down to the lowest setting
9. Rotate the gripper 360° clockwise to turn on the grinder
10. Using the telescopic joint slowly advance the grinder into the object you wish to cut
11. Cut in a small amount and then back out
12. Repeat the in and out cutting until you have made it all the way through the material
 - a. The robot is able to apply much more force than a human so the in and out maneuver will help to keep the tool from stalling.
 - b. The tool is equipped with a stall protection circuit that will automatically shut off the tool if the bit becomes stuck.
 - c. If the tool does stall then pull the cutting disc or wheel out of the material and then rotate 360° Counterclockwise and then back 360° Clockwise to reactivate the tool and continue your grinding operation
13. When your grinder operation is completed then retract the tool and straighten your gripper back to the initialized zero.
14. Rotate the gripper 360° counterclockwise to deactivate the tool