GI² TECHNOLOGIES

SAVING LIVES THROUGH INNOVATION

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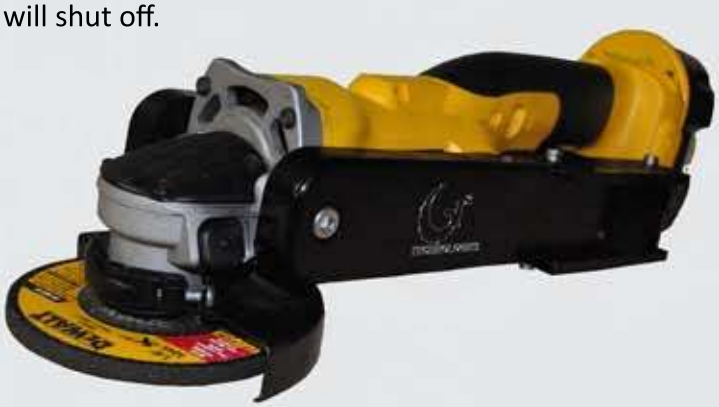
RATS TOOLS

The Rotation Activated Tool System (RATS) was developed by GI² Technologies to give robot operators the ability to use power tools, regardless of their robotic platform.

Simply place the system in the gripper of your robot and proceed down range. To activate the power tool, rotate your gripper 360° clockwise and the tool will automatically turn on. When your cutting or drilling task is completed, rotate the gripper 360° counterclockwise and the system will shut off.



Built-in circuitry protects the tool from being damaged by stall currents. If the tool goes into a stall the power is automatically shut off until the stall has been cleared. Simply rotate the tool 360° clockwise and the system will turn on to continue your operation.

FEATURES:

NO Electrical Connection Between the Tool and Robot
Ability to Drop Tool to Perform other Tasks while Downrange
Activate Tools by Rotating Gripper
Standard 18v DeWalt Power Tools
Rugged Aluminum Construction
Adapts to ANDROS, ICOR and Many More Robots

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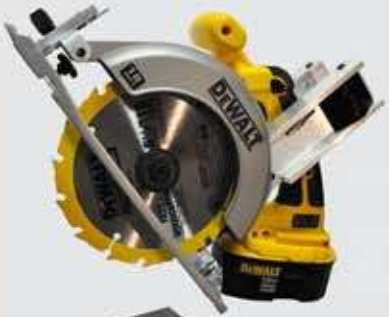
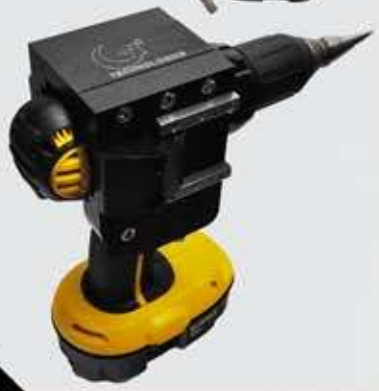
Additional RATS Tools





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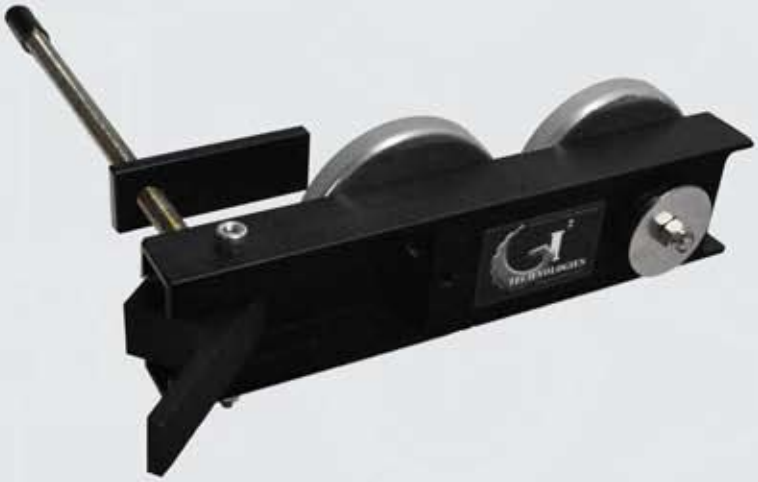
DOOR STOP

Q: How long does it take a skilled robot operator to get a robot through a spring loaded fire door?

A: Too long, consuming precious time and battery power



GI² Technologies has developed a simple mechanical device that will allow any operator to overcome a spring loaded door in a matter of minutes.

1. Clamp down on door stop with robot gripper
2. Place door stop on the knob side of the door
3. Open the grippers and withdraw your arm
4. The magnetic base will snap to the door and hold the stop in place
5. Grab the door handle, twist and pull back on the handle to open the door
6. Once the door begins to open the door stop will snap itself around the door
7. Once the door has been opened past 10 inches the system will deploy itself
8. Release the handle and let the door close
9. Since the door stop has been deployed it will keep the door open 10 inches
10. Bring manipulator through the opening and swing the door out of your way
11. The door stop will also keep the door open for when you come back

FEATURES:

Simplifies the Task of Opening Spring Loaded Doors

Easy to Use

Reusable Magnetic Base

Optional Adhesive Mounts for Non-Metallic Doors

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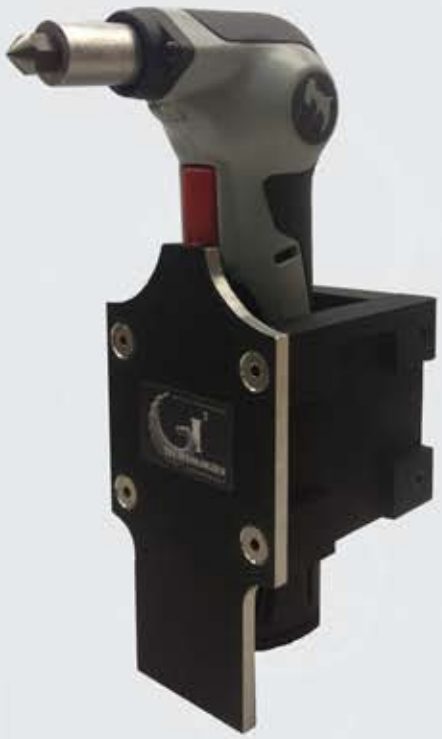
WINDOW BREAKER

Usually window breaking is a task for larger robots equipped with spring loaded center punches. These devices require a large amount of force which smaller robot cannot apply. The robot must also apply a near perpendicular force to the window. The GI² Technologies window breaker allows operators of any size robot to break glass windows. Using a modified Auto Hammer the robot simply pushes the device into the window and automatically activates the Auto Hammer to shatter the window.



The device can break multiple windows on a single charge. There are NO electrical connections needed between the tool and the robot. Simply pick up the tool and push it up against the window you intend to break. This device only requires 2 lbs. of force to activate, making it ideal for smaller robotic platforms.

FEATURES:

NO ELECTRICAL CONNECTIONS BETWEEN TOOL AND ROBOT

ALLOWS SMALL ROBOTS TO BREAK WINDOWS

REPEATED USE

MULTIPLE MOUNTING METHODS

BREAK GLASS WITHOUT PERPENDICULAR ALIGNMENT

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