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Hand Vario

FIRST RESPONDER
S E R I E S

USERS GUIDE



 **AMERICAN**
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Thank you for choosing equipment from **American Rescue Technology**. We strive to give our customers the latest technology available in rescue products. From the newest lightweight alloys, to the most innovative designs in the industry. We continually update and refine our products in order to offer the highest quality equipment at a reasonable price. All tools are third party tested and ISO 9001 Quality Assurance Certified. At **American Rescue Technology** we feel we offer the highest quality rescue equipment available; so do our customers! Thank you again for choosing **American Rescue Technology**.

Read Before Operating

Read and follow this manual and safety regulations prior to operation.

- Only trained and qualified personnel are authorized to use this cutter.
- Operator must wear protective clothing, helmet with visor and gloves.
- No modifications in shape or performance is allowed. Changing the pressure relief valve of the tool is not allowed.
- This tool is designed for the use described in this manual. Other applications are not permitted.

Applications

The Hand Vario is designed for cutting body parts on vehicles. It is used to rescue trapped or endangered patients by: Cutting door or roof pillars, door posts, hinges and side impact bars.

The cutters are also used for industrial purposes, e.g. to cut pipes, structural steel, sheet metal and cables.

Cutting: The Hand Vario is designed to cut key obstacles in passenger cars, busses, trucks and other vehicles. Cutting of solid bars and heavier stock should be done in the round stock notch at the base of the blades. The greatest cutting force is available nearest the pivot point of the blades; therefore all cutting should take place as close to the pivot point as possible.

Spreading: The tips of the Hand Vario are ribbed on the outside. It is recommended to use this area for spreading to avoid “slipping or kickback” and to avoid damage to the tool’s arms. Insert the tips as far as possible into the opening to be spread. After enlarging the opening continue tunneling until a stable point is found; then operate tool to overcome obstacle.

Lifting: Use support blocks when lifting on unstable ground and be sure to crib the load as you proceed. Observe load during lifting. Shifting or tilting could take place causing the load to drop.

Operating Hand Vario

The operation of the Hand Vario is controlled by a lever control and pump handle.

Opening: Switch valve to open position, activate ←|→ pump handle - blades open.

Closing: Switch valve to close position, activate →|← pump handle - blades close.

To Stop Movement: Do not activate pump handle.

Turnable Tool Head: The tool head can be rotated 360 degrees. This allows the tool to easily be used in any position.

Precautions: Do not attempt to cut steering columns, bumper brackets or other high-strength parts with the tool. When cutting objects with one free end, care should be taken to ensure against injury caused by flying pieces.

Maintenance

To ensure that the Hand Vario is ready at all times the following maintenance should be performed:

- After every use the tool should be cleaned and given a visual inspection. Check all cutting and spreading surfaces for damage.
- Check torque on main pivot point (center bolt) it should be set to 40 lb-ft.
- When necessary (at least once a year) clean and grease all joints connecting the arms to the piston rod, and the pumping mechanism. This can be done as routine maintenance or by your distributor, or American Rescue Technology, Inc.
- If you experience any problems with the Hand Vario contact your local dealer or American Rescue Technology, Inc.

Do Not dismantle this tool. There are no user serviceable parts inside.