XShear Heavy Duty Trauma Shears

1. Product Identification

Product Name: XShear® Heavy Duty Trauma Shears

Models: 7.5” Trauma Shears, all colors

Intended Use: Rapid cutting of heavy textile materials including clothing, seatbelts, bandages, and similar materials in emergency and medical settings.

Manufacturer: XShear, P.O. Box 145, Cassopolis, MI 49031 USA • Phone: 313-744-4228 • Email: info@xshear.com

2. Hazard Identification

This product is a sharp cutting tool. Primary hazards are mechanical (cuts and lacerations) from the blade edges.

- Sharp blades can cause cuts or lacerations if mishandled.
- Risk of injury when cutting near skin or soft tissue if proper technique is not followed.
- Not designed or approved for use as sterile surgical instruments.

3. Composition / Materials

Blade Material: 420J2 Japanese stainless steel, hardened to 52 ±2 HRC

Blade Thickness: Approximately 0.118 in (3 mm)

Coating (select models): Black titanium coating for enhanced corrosion resistance and matte finish

Handles: Molded with soft-touch, slip-resistant inner grip surfaces

4. First Aid Measures

- In case of cut or laceration: Clean the wound with soap and water. Apply pressure to control bleeding. Seek medical attention if the cut is deep, bleeding does not stop, or signs of infection develop.
- Eye contact with debris: Rinse thoroughly with water. Seek medical attention if irritation persists.

5. Handling and Storage

- Always keep fingers and hands clear of the blade during use.
- Ensure no skin is in contact with the cutting surface when cutting near a patient.
- Do not use if the shears are loose, damaged, or dull.
- Store in a dry location. Use provided holster or protective sheath when not in use.
- Keep out of reach of children.

6. Exposure Controls / Personal Protection

No special respiratory or chemical protection is required. Standard clinical or field personal protective equipment (gloves, eye protection as appropriate for the environment) is recommended during use and cleaning.

7. Physical Properties / Specifications

Property	Specification
Overall Length	7.5 inches (longest point of handle to blade)
Width (widest point of handle)	3.5 inches
Weight (shears only)	Approximately 4 ounces
Blade Thickness	Approximately 0.118 inches (3 mm)
Cutting Area Length	Approximately 2 inches

Blade Hardness	52 ±2 HRC

Design Features: Patented curved blade design for gentle approach near skin; serrated lower blade; heavy-duty center bolt; minimal surface variations for ease of cleaning; autoclave ready.

8. Stability and Reactivity

Stable under normal conditions of use and storage. Avoid prolonged exposure to highly corrosive chemicals without rinsing and drying. Stainless steel may develop surface discoloration if left in contact with certain disinfectants; rinse thoroughly after cleaning.

9. Disposal Considerations

Dispose of in accordance with local regulations for metal articles. The product contains no hazardous substances requiring special disposal procedures. Recycle as stainless steel where facilities exist.

10. Cleaning, Maintenance, and Additional Information

- Clean with commercial disinfectant or dilute bleach solution. Rinse thoroughly with water and allow to dry completely.
- Apply a drop of lubricating oil to the pivot and blade surfaces after cleaning to maintain smooth operation and reduce corrosion risk.
- Adhesive residue or fiberglass may be removed with 100% acetone (nail polish remover).
- Autoclave compatible using standard instrument procedures; however, the shears are not designed or approved for use as sterile instruments.
- May be disassembled for deep cleaning using a Torx T15 bit on the center bolt. Reassemble carefully in the correct order.
- Sharpening service available; contact manufacturer for details.
- Covered by a 5-year warranty. Contact info@xshear.com for warranty claims or questions.

Document prepared for informational purposes. Always follow appropriate clinical protocols and manufacturer instructions. This document does not replace professional medical or safety training.