

# Olympic Performance

**Chosen for use  
at the 1994,  
1996 and 2002  
Olympic Games**



## HARTWELL MEDICAL EVAC-U-SPLINT®

**The only immobilization technology that  
provides continuous spinal support and  
patient comfort in one complete package.**

### **What Clinical Studies State:**

*"We contend that a patient with an acute spinal injury should be transferred to a conforming support surface until appropriate investigations are complete.*

*Managing a spinal injury in this way may reduce the incidence of pressure necrosis and the possibility of further neurological compromise."*

M.E. Lovell MD and J.H. Evans MD  
Noble Hospital, Isle of Man UK  
INJURY: INTERNATIONAL JOURNAL  
OF THE CARE OF THE INJURED  
(1994)  
VOL 25, NO 3

*"The results suggest that vacuum mattress splints cause less discomfort than do wooden backboards."*

T.R. Delbridge, et al.  
Division of Emergency Medicine  
UNIVERSITY OF PITTSBURGH  
PREHOSPITAL AND DISASTER  
MEDICINE (1994)  
VOL. 9 NO 3

**Adult Mattress** The Evac-U-Splint Adult Mattress offers fast, full-body immobilization without inward pressure. The vacuum mattress comfortably conforms to every body contour, ensuring proper patient support and stabilization. Unlike rigid, hard backboards, vacuum technology dissipates the patient's weight, thus reducing pressure point tissue damage. Patented integrated slats and the simple strap system provide maximum support and security.

**Pediatric Mattress** Like the adult mattress, the Pediatric Mattress is designed to mold to the child's specific body contours, providing a secure cradle that is both supportive and comfortable. The child is held securely and comfortably in neutral alignment reducing the struggling, fear and anxiety common with pediatric patients. Designed to accommodate children in the 2-10 year age group, the Pediatric Mattress has built-in handles and is easy to lift and carry.

**Splint Set** When fractures or dislocations are suspected the Splint Set provides the fastest, most effective method for immobilizing extremities. The three splints are sized to fit every conceivable situation. Durable yet comfortable material molds to every body contour. The compact pump is virtually indestructible and the Evac-U-Splint MaxiValve is guaranteed for life.



**HARTWELL MEDICAL**

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# EVAC-U-SPLINT® SYSTEM



## EVAC-U-SPLINT® Adult Mattress

The Evac-U-Splint® mattress provides fast, effective and comfortable immobilization by molding to the contours of the patient's body. Evenly distributed spinal support reduces pressure point tenderness and minimizes rehabilitation time. The unique polystyrene bead filling provides thermal insulation decreasing the potential for hypothermia. The Evac-U-Splint® mattress is X-ray and MRI compatible. Folds in thirds for storage in an interior or exterior compartment. Innovative MaxiValve™ system is fast, effective, and has no parts to lose. Three year warranty on materials and workmanship. Lifetime warranty on MaxiValve™.

### Specifications:

#### DIMENSIONS:

**Unfolded:** 78.75" L x 29.5"W x 2.5"D  
(200cm x 75cm x 6.4cm)

**Folded:** 31.5" L x 28"W x 6" D  
(80cm x 71cm x 15cm) in carrying case

#### WEIGHT:

**Mattress Only:**  
12.1 lbs. (5.5 kg)

**Mattress, Case & Pump:**  
16.75 lbs. (7.6 kg)

#### OPERATING TEMPERATURE:

-30° F to 180° F (-34° C to 82° C)

#### LOAD CAPACITY:

350 lbs. (159 kg)

#### MATERIALS:

**Fabric:** Vinyl/polyester laminate

**Filling:** Polystyrene beads treated for fire resistance

**Stiffener:** Birch plywood

**Valve:** Non-magnetic, self-sealing

**Buckles:** Delrin

**Carry Case:** Nylon

**Vacuum Pump:** Aluminum cylinder

\*NSN - 6515 01 408 7539



## EVAC-U-SPLINT® Pediatric Mattress

A simple solution to pediatric immobilization. Uncomplicated design enables fast, accurate application of the Evac-U-Splint® Pediatric Mattress. Conforming beads make positioning of the patient in neutral alignment a quick on-scene procedure. No additional blankets or pads are necessary. No parts to lose. Child is held securely and comfortably without unnecessary pressure, thus reducing child anxiety during transport. Filled with thousands of polystyrene beads, the vacuum mattress acts as a thermal insulator helping to maintain the child's core body temperature. Integrated slats provide additional rigidity. Three year warranty on materials and workmanship. Lifetime warranty on MaxiValve™.

### Specifications:

#### DIMENSIONS:

**Unfolded:** 50" L x 20"W x 2"D  
(127cm x 51cm x 5cm)

**Folded:** 23" L x 20"W x 4"D  
(58cm x 51cm x 10cm) in carrying case

#### WEIGHT:

**Mattress Only:**  
5.0 lbs. (2.3 kg)

**Mattress, Case & Pump:**  
9.2 lbs. (4.2 kg)

#### OPERATING TEMPERATURE:

-30°F to 180°F (-34°C to 82°C)

#### LOAD CAPACITY:

75 lbs. (34 kg)

#### MATERIALS:

**Fabric:** Vinyl/polyester laminate

**Filling:** Polystyrene beads treated for fire resistance

**Stiffener:** Birch plywood

**Valve:** Non-magnetic, self-sealing

**Buckles:** Delrin

**Carry Case:** Nylon

**Vacuum Pump:** Aluminum cylinder

\*NSN - 6515 01 398 5469



## EVAC-U-SPLINT® Extremity Splint Set

Set of three splints provides a solution to almost every conceivable splinting situation. From dislocated shoulders to angulated wrist fractures, these splints are supple and conforming, yet durable and easy to clean. Duffel-style carry case holds all three splints and compact manual vacuum pump. Now with hook and loop or side-release buckle straps. Specify your strap choice when ordering. Same no-hassle warranty. All Evac-U-Splint® products meet the European CE standard.



### Specifications:

#### DIMENSIONS:

**Large:**  
40" x 30" x 1"  
(102cm x 76cm x 2.5cm)

**Medium:**  
27.5" x 20" x 1" (70 x 51 x 2.5 cm)

**Small:**  
19.5" x 13" x 1" (50 x 33 x 2.5 cm)

**Stored in Carry Case:**  
24" x 11" x 11" (61 x 28 x 28 cm)

#### WEIGHT:

**Splints only:**  
**Large:** 2.2 lbs. (1.0 kg)

**Medium:** 1.0 lbs. (0.5 kg)

**Small:** 0.5 lbs. (0.2 kg)

**Splints, Case & Compact Pump:**  
6.4 lbs. (2.9 kg)

#### OPERATING TEMPERATURE:

-30°F to 180°F (-34°C to 82°C)

#### MATERIALS:

**Fabric:** Vinyl/nylon laminate

**Filling:** Polystyrene beads treated for fire resistance

**Valve:** Non-magnetic, self-sealing

**Closures:** Hook and loop or side-release buckles

**Carry Case:** Nylon

**Vacuum Pump:** Aluminum cylinder

\*NSN - 6515 01 398 5455



## EVAC-U-SPLINT® Complete System

The complete system includes the adult Evac-U-Splint® mattress and the extremity splint set, both storage/carry cases, and our indestructible aluminum pump. The system can be ordered with both the large and the compact pump or with just the large pump. All Evac-U-Splint® products come with the new MaxiValve™. Materials and specifications are listed under the adult mattress and extremity splint set headings. Three year warranty on materials and workmanship. Lifetime warranty on MaxiValve™.



## NEW! MaxiValve™

This innovative valve system is fast, effective and easy to use by all EMS and hospital personnel. Quick connect and disconnect is simple and intuitive. No special training required. Audible click ensures a positive connection, even in low light conditions. Unique vent system makes it easy to use even with gloves on. The new MaxiValve™ is designed to work with all previous Evac-U-Splint® systems. No need to start over with new splints. Lifetime warranty on the new MaxiValve™. Call to order your retrofit kit today!

**Order # EV15RET  
MaxiValve™ Retrofit Kit**

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