

ORTHOVEST EXOSKELETON SUPPORT SYSTEM

PRODUCT INFORMATION

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PHILLIPS SAFETY
PRODUCTS INC.

PRODUCT INFORMATION
ORTHOVEST EXOSKELETON SUPPORT SYSTEM
RA-ORTHOVST-S | RA-ORTHOVST-M | RA-ORTHOVST-L



The OrthoVest Exoskeleton Support System is an ergonomic lead apron support system designed to reduce strain on the neck, shoulders, and back. It redistributes the weight of heavy radiation protection aprons to the hips, helping reduce physical stress during long procedures. This makes it a practical solution for healthcare professionals who regularly wear lead aprons.

Featuring a rigid, lightweight structure, this support system helps transfer apron weight away from the spine. Its adjustable waist belt provides a secure fit, while the shoulder supports help distribute the load to the hips. In addition, the design allows users to bend, reach, and move comfortably throughout their workday.

Designed for use underneath an existing lead apron, the OrthoVest requires no changes to current radiation protection garments. Simply put on the support system, adjust the waist belt, and wear your lead apron over it. This convenient design makes it suitable for professionals who spend extended periods wearing lead aprons.

Available in three sizes, from Small to Large, the OrthoVest accommodates different torso lengths. Choosing the correct size helps ensure proper weight distribution and a comfortable fit.

By reducing the load on the upper body, this ergonomic support system helps improve comfort during prolonged lead apron use. It is an ideal accessory for healthcare professionals seeking additional support without replacing their existing radiation protection equipment.

SPECIFICATIONS

SHIPPING WEIGHT: Varies by size

SHIPPING DIMENSIONS: Varies by size

SIZE: Small, Medium, Large

COMPATIBILITY: Lead Aprons

DESIGN: Lightweight, Rigid Structure

FIT: Adjustable Waist Belt

SIZING GUIDE

1. MEASURE YOUR TORSO

Mark the top of your shoulder near your neck (A), then mark the belt line at the top of your hip bone (B). Measure the vertical distance between the two marks.

2. CHOOSE YOUR SIZE

The OrthoVest is available in three sizes to fit different torso lengths. Adjacent sizes share one setting, so nobody falls between sizes.



SMALL	MEDIUM	LARGE
Torso length: Under 14½"	Torso length: 14½" - 19½"	Torso length: over 19½"
Settings: 12"-16" 2 belt slots x 4 stud slots Best for: Petite and smaller-stature staff, including 8% of women in ANSUR II.	Settings 16"-21" 3 belt slots x 4 stud slots Best for: Average torso lengths, covering 92% of women and 95% of men.	Settings 21"-25" 2 belt slots x 4 stud slots Best for: Longer torsos, representing approximately 5% of men.

3. SET THE VEST AND FINE-TUNE

BEFORE THE APRON

Set the shoulder segments approximately 1"-2" above the shoulders.

WITH THE APRON ON

Put on your lead apron. Adjust the front stud slots until the supports just touch the tops of your shoulders.

ADJUSTMENT SYSTEMS

The OrthoVest features two adjustment systems that work together to customize the height and fit of the support frame. Different slot combinations can achieve the same height while providing a slightly different arch. Try them to find the shape that fits your body best.



Stud slots (front)

Each front support has four keyhole-shaped slots (S1-S4) that lock onto the waist belt's metal studs. Each slot adjusts the shoulder-support height by approximately 1".



Belt slots (back)

Vertical slots on the rear support connect the frame to the waist belt. Each slot adjusts the shoulder-support height by approximately 1" to accommodate different torso lengths.

CONTACT

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