

# 870V53

## ADVANCED SHOCK-MITIGATING BOLSTER

### Advanced Shock-Mitigating Bolster

The STIDD 870V53 represents the most advanced shock-mitigating stand-up bolster system available. With a suspension system proven in Sea State 4 at 50+ knots aboard the MKV Special Operations Craft, the 870V53 provides superior comfort and safety in long duration, rough open water transits aboard high performance craft.

- Proven STIDD/Taylor MkV Suspension enhances performance, safety, and comfort of Maritime Special Operations personnel.
- Folding Half-Seat provides comfort and support while loitering.
- Optional MkV armrests, ballistic inserts, and weapons mounts allow the 870V53 to be configured to mission requirements and operator gear changes.
- Meets or exceeds USSOCOM, USMC, and USCG Technical Specifications.
- Finish: Hardcoat anodized, color: Olive or Charcoal.
- Upholstery: Hi-Tenacity Polyester, color: "Black" with adjustable lumbar support.



High speed boat crew and passengers are regularly exposed to extreme forces. 870V53 Advanced Shock-Mitigating seats will keep them safe and comfortable.

### Model 870V53

Non-corrosive components

Hard mount receiver for optional MkV armrests and joystick controls

Proprietary torque-arm linear motion system with 3 pivot points for high strength-to-weight ratio.

4in Vertical Stroke inertial valve regulated Nitrogen Pressurized Taylor Shock Absorber with Accumulator and status indicator

Welded Aluminum Alloy Structure

Easy access for shock absorber pre-load adjustment and for viewing Go-No-Go status indicator

**NEW!**

Repositionable lumbar support

Hardcoat Anodized finish, color: Olive.

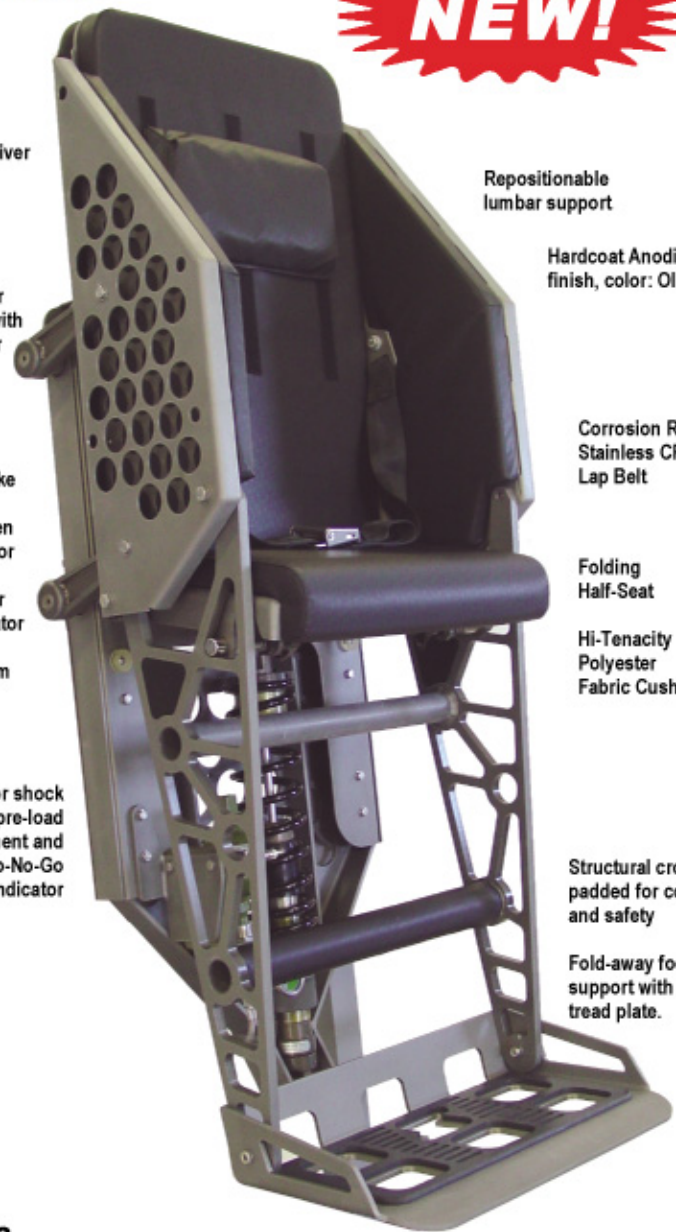
Corrosion Resistant Stainless CRES Lap Belt

Folding Half-Seat

Hi-Tenacity Polyester Fabric Cushions

Structural crossbars padded for comfort and safety

Fold-away foot support with non-skid tread plate.



### 870V53 Performance Features

- 4 in (10 cm) shock mitigating range of motion, vertical axis.
- Fully passive suspension for long-life and reliability.
- Pressure Responsive Valving prevents bottoming out.
- Externally Adjustable Coil Spring provides adjustable offset for user's weight.
- Internal Pneumatic Spring with hydraulic dampening from Taylor Devices, the industry leader in shock-absorber technology.
- Light-weight complements weight sensitive platforms.
- Half-Seat folds away conveniently during high-speed transits.
- Go-No-Go Suspension Status Indicator simplifies maintenance.
- Multi-million cycle service life assures long service life.

[www.stiddmil.com](http://www.stiddmil.com)

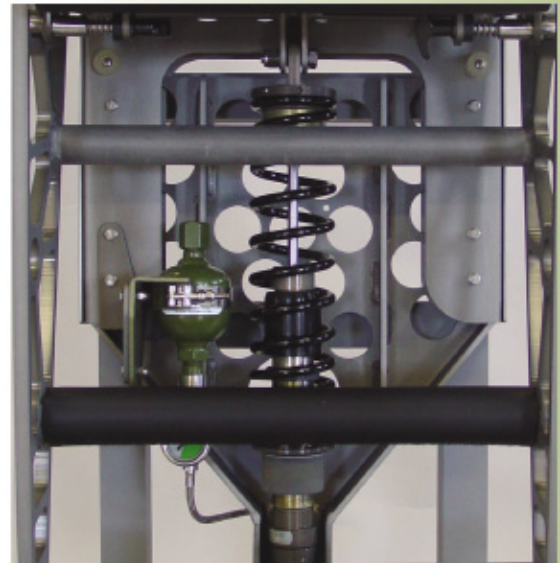


## 870V53 Advanced Shock-Mitigating Features

**Shock Absorber:** 4 in (10 cm) Vertical Stroke inertial valve regulated Nitrogen Pressurized Taylor Shock Absorber with Accumulator and status indicator

**Materials:** TIG Welded Aluminum alloy structure  
Non-Corrosive components and 316L hardware  
Hi-Tenacity Polyester Upholstery

- Ergonomics:**
- Improves crew performance and significantly reduces the risk of spinal, orthopedic and ligamentous repetitive stress injuries, caused by unpredictable boat motions.
  - Biomechanically correct lumbar curvature.
  - Lateral bolster wings effectively mitigate side and off-axis impacts.
  - Adjustable Half-Seat and Foot-Support fold away when not in use for maximum onboard maneuverability.
  - CRES Lap Belt ensures restraint throughout the range of boat motions.
  - Optional Fold-away Locking Reinforced Armrests provide maximum support in adverse conditions.



The Taylor Suspension - Heart of the 870V53

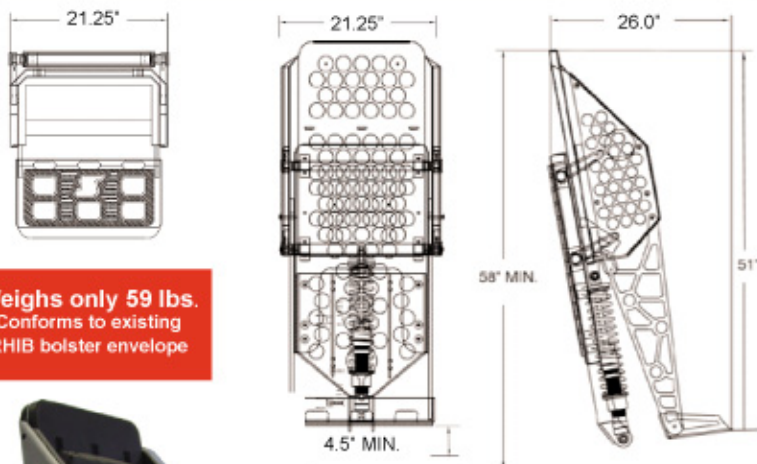


The Taylor Shock Absorber for the STIDD 870V53 Shock-Mitigating Seat is a lightweight robust shock absorber with 4 in (10cm) of stroke, Manufactured exclusively for STIDD by Taylor Devices, the leading name in Navy shock absorber technology.

- The Taylor shock absorber coil spring is factory adjusted to a pre-compressed height required to support the weight of the 870V53 seat carriage, the average adult male weighing 200 lb (91 kg) and his equipment. The shock has an adjustable knurl nut to compensate for lighter or heavier individuals.

### Taylor Shock Features

- Powdercoated two-stage coil spring.
- Elastomeric stop decelerates and effectively prevents hard bottoming of the shock absorber under excessive loads.
- Vibration isolation mounts attenuate high frequency harmonics.
- Clevis bearing distributes off axis loads.
- Nitrogen-charged accumulator maintains constant oil volume in the suspension system.
- Velocity sensing valve is tuned to a damping coefficient derived from the craft's specific forcing function.
- Go-No-Go gauge provides instant visualization of suspension system readiness.



**Weighs only 59 lbs.**  
Conforms to existing RHIB bolster envelope

U.S. & International Patents Pending



Half-Seat folds away during high-speed transits.



Foot support folds away for maximum onboard maneuverability.



Easy-to-read Go-No-Go Suspension Status Indicator

