



SCHROTH



Mine Blast & Utility Seat Systems

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The SCHROTH Mine Blast Protected Seat Systems are tubular lightweight systems with a unique resettable Energy Absorbing (EA) system designed into the seat. The EA design and technology comes from the years of experience SCHROTH has with energy management in seatbelt systems. The design of the seat gives the occupant not only excellent protection in a mine blast event, but also offers excellent protection in the event of an accident or impact. The All Belts to Seat (ABTS) design allows the vehicle manufacturer to optimize the installation of the seat within the hull. An integrated foot rest can also be incorporated into the seating system for additional lower-leg protection.

The unique SCHROTH EA technology is tunable to match the size and weight of the vehicle as well as the level of protection required and the available space within the vehicle interior. The EA is also designed to reset itself and offer high levels of protection for the secondary (slam down) event.

The Mine Blast protected seating system is available in two versions:

- SU-62 compact forward- or rear-facing seat
- SU-63 side-facing seat with full or side specific head rest for exceptional side impact protection

The SCHROTH seating comes standard with an ECE compliant lightweight 4-point harness restraint.

SCHROTH offers the ideal system for military personnel & troop transport configurations.



SU-62

SU-63

SU-63-L

SU-63-R

STANDARD FEATURES

- Forward-, rear- and side-facing installation (wall or frame mounted)
- Low-profile, space-saving seating solution
- Comfortable and durable seat surfaces (tear & flame resistant fabric, color – black)
- SCHROTH ABTS (All Belts to Seat) 4-point shock resistant, lightweight ECE R16 and FMVSS 209 compliant harness
- Seat and asm® (anti-sub-marining) harness designed to prevent submarining
- Spring loaded self-folding, storable seat pan
- Simple and quick installation
- ITAR free product – Designed and Manufactured in Germany

GENERAL SPECIFICATIONS

- Provides 10% to 95% occupant protection with full body armor
- Dynamically tested in forward, rearward and side facing directions with 95% dummy
- Flame resistant to DIN 75200/FMVSS 302
- Environmental qualification
 - 120 hours – ASTM B 117-90 for salt spray testing
 - STANAG 2895 – cold, heat, damp heat testing

OPTIONAL FEATURES

- Seating fabric available in black, dark blue, olive green and tan
- Upgradable SCHROTH 4 or 5 point RFR™ ECE/FMVSS/FIA compliant harness
- Additional seat pan padding
- Storage pocket under the seat
- Optional narrow seating width (380 mm)

KEY FEATURES

- Quick release, wall-mounted interface
- Modular construction
- Spring Loaded Self-Folding, storable seat pan



optional footrest

CUSTOM APPLICATIONS

Our lightweight seat systems may be adapted to many ground vehicle applications. We can assist with interface, integration, installation and ergonomic requirements as well as any vehicle specific seat modifications that may be required.

MINE BLAST PROTECTED SEAT SYSTEMS SU-62, SU-63, SU-63-L, SU-63-R

MINE BLAST PERFORMANCE DATA: SU-62 with footrest (testing with 50% Hybrid III ATD)

DRI: less than **11.9** DRI @ **Level 3b** – simulated 12t vehicle (TROSS II)

DRI: less than **14.9** DRI @ **Level 4b** – simulated 8t vehicle

SU-62 FORWARD FACING SEAT:

SPECIFICATIONS

- Less than 14.0 kg (30.8 lbs.) total weight with 4pt harness and optional footrest*
- Forward-facing dynamic tested to ECE-R 17 (50 km/h = 24g) with 95% Hybrid III ATD

SU-63 SIDE FACING SEAT:

SPECIFICATIONS

- Less than 16.5 kg (36.3 lbs.) total weight with 4pt harness and optional footrest*
- Side-facing dynamic tested to German ZMK-32 (32 km/h = 13.5 g) with 95% Hybrid III ATD

SU-63-R (SU-63-L) HIGH DENSITY SIDE FACING SEATING:

SPECIFICATIONS

- Less than 16 kg (35.2 lbs.) total weight with 4pt harness and optional footrest*
- Side-facing dynamic tested to German ZMK-32 (32 km/h = 13.5 g) with 95% Hybrid III ATD

*(optional footrest 1,9 kg)

UTILITY TROOP SEAT SYSTEMS

SU-60, SU-61, SU-61-L, SU-61-R

The NON-Mine Blast protected utility troop seating comes complete with an ECE compliant lightweight 4-point harness restraint and is the ideal system for commercial passengers and military personnel/troop transport configurations.

SU-60 FORWARD FACING SEAT:

SPECIFICATIONS

- Less than 9.4 kg (20.7 lbs.) total weight with 4pt harness
- Forward-facing dynamic tested to ECE-R 17 (50 km/h = 24g) with 95% Hybrid III ATD

SU-61 SIDE FACING SEAT:

SPECIFICATIONS

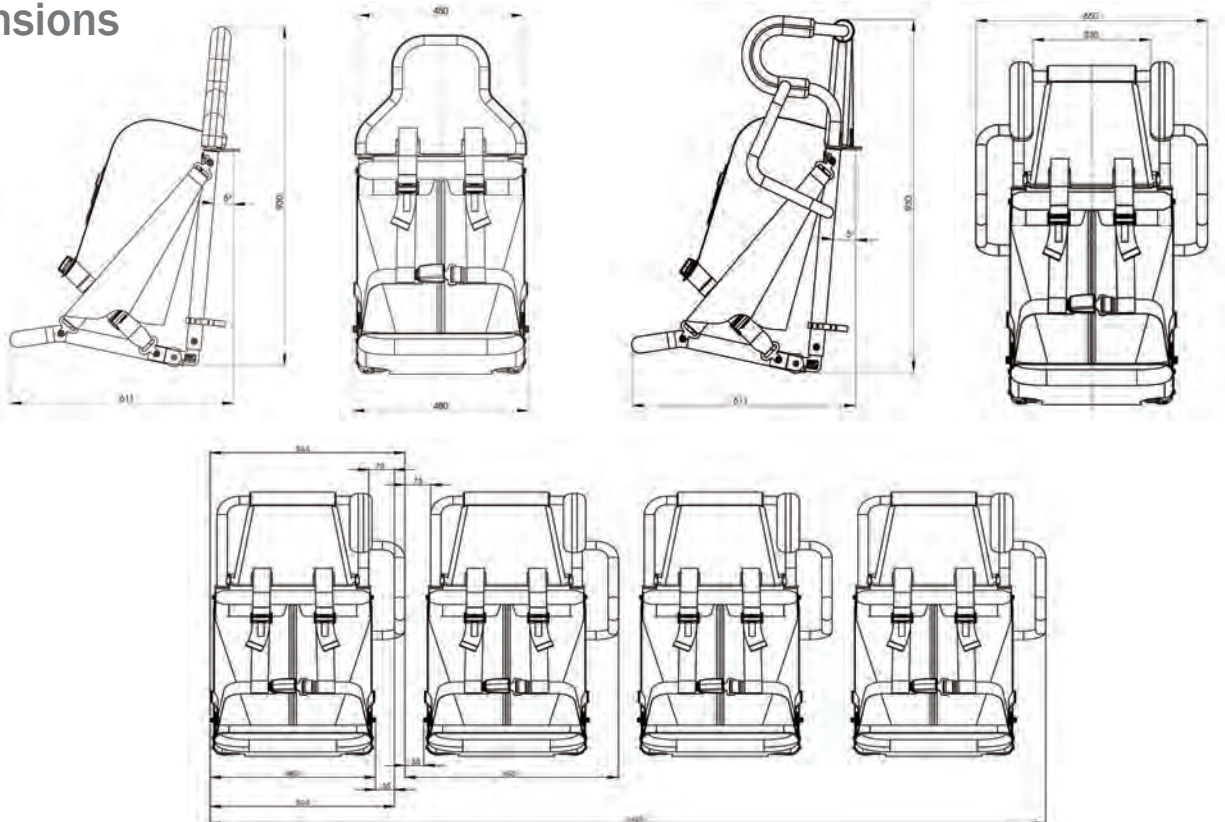
- Less than 12.3 kg (27 lbs.) total weight with 4pt harness
- Side-facing dynamic tested to German ZMK-32 (32 km/h = 13.5 g) with 95% Hybrid III ATD

SU-61-R (SU-61-L) HIGH DENSITY SIDE FACING SEATING:

SPECIFICATIONS

- Less than 11 kg (24.2 lbs.) total weight with 4pt harness
- Side-facing dynamic tested to German ZMK-32 (32 km/h = 13.5 g) with 95% Hybrid III ATD

Seat Dimensions



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