

SCHROTH®

SAFETY THROUGH TECHNOLOGY

SCHROTH AIRPRO®



**CRYSTAL
CABIN**
AWARD®
Finalist 2024

SCHROTH AIRPRO®

The SCHROTH AirPRO® System (shortlisted for the 2024 Crystal Cabin Awards in Health & Safety) is the signature product for commercial aviation passenger airbag restraint solutions. Building on SCHROTH's extensive experience with inflatable passenger safety products in commercial and business aviation, the SCHROTH AirPRO® System delivers the next generation in passenger airbag restraint safety.

The patent pending design is a solution for most passenger seating applications, to avoid recurring design and test iterations, and is suitable for seats in all commercial passenger classes. It is the ideal occupant safety solution for critical front row, exit row, and business class seating applications. The design meets the latest FAA and EASA rules on head impact, neck injury, head rotation, rebound, and chest acceleration, while optimized for passenger comfort with a soft and comfortable packaging.

Product Highlights

- Wedge style airbag design suitable for all seating configurations including infinite setback (also known as occupant free flail and unrestrained upper torso forward flail scenario)
- System meets voluntary regulations set forth in the FAA Special Airworthiness Information Bulletin (SAIB) 2023-08 from August 1, 2023
- Optimal solution for economy front row, exit row, and business class seating applications needing special technology to protect the passenger
- System designed to meet 14 CFR Part 25.562 16g requirements for passenger seats
- System does not impede egress from aircraft. Airbag deflation is under 10 seconds
- Safe for the full range of passengers. Airbag deploys away from a passenger
- Capability included to disable airbag deployment, e.g. for use of child seat
- Monitored Lift Lever Buckle to ensure airbag deployment does not occur when seat is unoccupied
- Lapbelt uses polyester webbing for optimal crash performance and durability
- ETSO C22G authorization for the lapbelt airbag and TSO C142B for the electronic triggering unit and lithium battery
- Product life limit of ten (10) years for the airbag and electronic triggering unit
- 1 PAX System weight approximately 2 kg (varies based on actual customer product and protection level required). The system includes the 2-point lap belt with integrated airbag, electronic triggering system, inflator, and connecting cables
- The cover over the integrated airbag is genuine leather which can be color coordinated to match the surrounding furniture
- The gas hose from the airbag to the inflation cylinder (inflator) is designed with twist prevention and can be routed with gaps as large as 10 mm x 38 mm

Sales and Service

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