

AIRCRAFT CABIN

Volume 7 Issue 2 | April 2018

MANAGEMENT



Sitting pretty

Aircraft seating

Space for growth

The satcoms boom

Grand designs

Qatar Airways Airbus A350-1000

Crystal Cabin Award 2018

The finalists

* This year's Crystal Cabin Award, the twelfth so far, saw 91 submissions in eight categories, with In-Flight Entertainment & Connectivity having been added since 2017. The jury of international experts reduced those submissions to a total of 24 products and concepts in the final round.

The characteristic Crystal Cabin Award trophies are moving with the times, being additively manufactured from aluminium using a honeycomb structure, under the auspices of FIT, a Platinum Sponsor of the Crystal Cabin Award.



CABIN CONCEPTS

1. Airbus: A320 Family Airspace Interior

Based on quantified market needs and codeveloped with airlines, the new Airbus A320 Family Airspace interior delivers market leading levels of passenger comfort while at the same time acting as a platform for airline differentiation and efficiency.

Building on the Airspace brand pillars of comfort, service ambience and design, it applies innovative design, technology and materials to elevate the single aisle flying experience to new levels.

As well as the biggest fixed bins in the sky, extra personal space, unique welcome feature, extra window visibility and bathroom comfort features, the new cabin also boasts an iconic ceiling light feature and the Airspace cross programme design language to create a true family feel.

It is available as both line fit and retrofit.

2. PriestmanGoode: Qatar Airways Qsuite

The Qatar Airways Qsuite is a unique and patented seat design that brings the First Class experience to the airline's Business Class cabin, setting a new standard for Premium Class travel and redefining industry expectations, in tandem with the airline's already award-winning Business Class service. PriestmanGoode was privileged to be involved in the design and build of this ground-breaking product.

First retrofitted in a Qatar Airways Boeing 777 aircraft, Qsuite features the aviation industry's first ever double bed available in Business Class, with privacy panels that stow away, allowing passengers in adjoining seats to create their own private room. In addition, TV monitors on the centre four seats can move to allow colleagues, friends or families travelling together to transform their space into a private suite for four to work, dine or socialise together.

3. Singapore Airlines: Singapore Airlines New A380 Suites

Singapore Airlines launched its new Suite product on the Airbus A380 in December 2017. Designed with space, comfort and convenience in mind, each Suite models an all-encompassing home experience in the sky. Not only will the new Suites offer passengers a plethora of innovative and exclusive patented features, they exude unparalleled luxury and exclusivity.

The new Singapore Airlines A380 Suite is designed in collaboration with Pierrejean Design Studio, and Zodiac Seats UK as the manufacturer.



CABIN SYSTEMS

4. PASSME Consortium: Passme Innovative Aircraft Seat

Improving the boarding and disembarking time by 5 minutes for a 737-800 is possible due to this aircraft seat concept. The concept reduces turnaround time by increasing the aisle width from 16in to 32in while boarding/disembarking, corresponding to an increment of 100% of the minimum aisle width, which reduces aisle and seat interference. The system works with a mechanical actuator on each row of three seats that can be activated by the flight crew or passengers themselves. The system is only used while the aircraft is at a full stop. For TTL and cruise, the aisle and seat width are standard. Almadesign, Optimares Tudelft and DLR worked together in the European PASSME project to create this innovative aircraft seat.

5. Rockwell Collins: Silhouette MOVE

Silhouette MOVE is a revolutionary cabin divider taking advantage of the unused space between the divider and the seat in front of it. Current aircraft dividers are static and inflexible; the project team challenged this paradigm with a flexible solution that can adapt to different phases of flight.

The divider has a patented functionality allowing seats to be positioned closer than any other divider in the industry, adding 1ft³ of space per passenger seated in the bulkhead row. This was achieved while still meeting HIC requirements without needing to test alternative restraint

devices or airbags. Silhouette MOVE is OEM neutral in twin and single aisle configurations. The raised bottom of the divider opens up the floor and under-seat area giving passengers more space to stretch their legs or place carry-on items.

6. Zodiac Aerospace: Durinal

Lavatories are continually improving, but still present two major irritations for passengers; the ever-present wet floor in the male 'splash zone' and the inevitable queue for the toilet after meals and before arrival.

Durinal's innovative configuration, replacing one regular 60in x 30in lavatory with two urinals in the heart of high-density Economy Class, tackles both problems head on, whilst bringing significant cabin efficiencies for the airlines.

Durinal provides a pair of toilets that specifically target the male 'quick visit'. As a result, lavatory cycle time can be dramatically improved whilst reducing the male usage of the remaining conventional toilets, thus leaving them more hygienic for women.

Durinal's innovative modular furniture concept shares common water/waste systems and eliminates wash basins and conventional amenities in favour of anti-bacterial hand-wipes. The resulting lavatories are lightweight, cheap to operate, easy to maintain and use significantly less water than conventional toilets. ▽

