

## meals on wheels

Norduyn, a designer and manufacturer of galley and cabin products, has launched a new suite of lightweight, thermally efficient galley carts for commercial airlines. Weighing 16.5kg (36.3 lbs) for a full-size unit and 10.5kg (23.1 lbs) for a half-size unit, Norduyn designed the N9000 carts to help airlines save weight in the cabin. The carts are designed to offer optimal thermal efficiency, a longer useful life and are built using 34% less parts than standard trolleys. The company says that the trolleys tested well, requiring at least 50% less dry ice than traditional aluminium trolleys because of the use of advanced composite materials moulded into a single body shell. Norduyn mentions that this method also reduces the risk of parts getting loose and rattling in the galley. Norduyn's prototype carts are currently being tested and reviewed by selected airlines. The certification process is underway and the material formulation has already been qualified against the critical fire, smoke and toxicity requirements. "We believe the market, including cabin crews, will be pleasantly surprised with this product. Our growth path also includes adding technologies to the product to enable personalisation of passenger services," says Patrick Phillips, Norduyn's international director of business development. Norduyn will showcase its new family of galley carts at Aircraft Interiors Expo in Hamburg.



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## joinforces

The key for cabin and lighting designers – and airlines as well – is to offer a comfortable atmosphere where passengers can relax as they travel. "OEMs such as Airbus and Boeing have fallen in love with the attractive combination of a modern cabin interior and LED technology, which provides colours, extended lifespan and has low energy requirements," says Rainer Ott, president of Diehl Aerosystems. "Close cooperation between cabin makers and light engineers is vital, especially when developing new lighting concepts." Diehl Aerosystems understands the great potential inherent in integrating cabin interiors and lighting and in close cooperation between these two fields. The company believes the design process necessitates continuous collaboration between both development units. At an early stage, the company's lighting designers are given cabin elements that allow them to simulate whether shadows are cast and how far the elements and lighting components harmonise. If the simulations indicate a need for adjustments, the industrial design department can then adapt linings and contours to produce the desired effect. The lighting designers then optimise the optics.