

## Letter of Reference GENIMI Oxygen Systems

For our Diamondo Earthrounding project - a flight around the world in an unpressurized Diamond Aircraft DA50 RG in Spring of 2022 - Mr. Gerald Hintermayr agreed to partner with us through his company GENIMI Aviation Oxygen Systems. Parts of our route took us over the Central Pacific, an itinerary with multiple legs over 12 hours of continued flight at FL170 (with ferry tank installation).

For these legs, the aircraft's integrated oxygen provided insufficient supply for two pilots. To make the routing work and to allow for redundancy in oxygen supply, Gerald supported us by providing a supplementary GENIMI Oxygen cylinder. Thanks to the carbon fiber and glass construction, the cylinder is extremely light weight. This characteristic was crucial in our setting, as the ferry tank installation left us with little capacity for added weight. Furthermore, the cylinder's ability to hold 300 bar max. pressure makes them relatively small-scale - in our case, fitting in perfectly in one of the footrests of the DA50's rear seat row.

The formidable endurance of the GENIMI cylinder was further tweaked by using a pulse demand oxygen system. This provided us with sufficient endurance to successfully cross the Pacific without refilling the cylinder (50h+ of flying at FL170 with two occupants). The pulse demand system also allows for smaller cannulas e.g., when compared to the Oxsaver system, which meant less parts get in your way when you try to eat or drink.

Apart from his high-quality products, Gerald's supportive nature made collaborating with him a very pleasant experience. We further benefited from Gerald's substantial experience as a ferry pilot, who himself has tested his products extensively on multiple flights in unpressurized airframes. Thank you, a lot, for your partnership Gerald!



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*Diamondo Earthrounding pilots Matthias & Robin with the DA50RG*