

Machbarkeitsstudie "Production of low-drag surfaces on large structures"

Initiative: Herstellung funktionaler Oberflächen (beendet)

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Previous studies have shown that under turbulent flow conditions a surface with a fine ribbed structure generates a lower resistance than a smooth, non-structured surface. Experimental tests involving a variety of applications (aircraft, sailing yachts and laboratory experiments) have confirmed this. Currently, the only means of creating these microstructures on large objects is the application of suitable films. This method has a number of disadvantages, particularly that it cannot be applied universally. The objective of the present project is therefore to develop a process that applies a structured coating with suitable material to surfaces with complex curvature. The application, structuring and drying of the coating will be carried out in one single step.

Projektbeteiligte

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