ME646 – Magnus Effect Experiment

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Zhangxi (Jesse) Feng, James Skinner, Simon Popecki

# Purpose

The goal of this experiment is to analyze the effects of cylinder diameter, surface roughness, and rotational speed on the lift force generated through the Magnus effect.

# Experiment Overview

The cylinders are made from aluminum (Stella and Bud Heavy) and cardboard (Quaker Oats). Their diameters are, respectively, 55.9 mm (2.2 in), 83.6 mm (3.3 in), and 127 mm (5 in). The cylinders are mounted