

REDUCE YOUR DRAG FACTOR

A new aerodynamic sculling blade targets efficiency in and out of the water.

BY TOPHER BORD

Two THINGS AFFECT THE SPRED OF ROWERS and their equipment: propulsion and drag. And while there's only one source of propulsion, drag comes from wo places the water through which you propel your shell, and the air moved by you and everything not in the water. The frater you go, the greater the drag. And while shells have always been designed to reduce the drag of water on the hull, few products have sought to increase accordynamic efficiency.

Derhari new Dreharkero sculls utilize the same design trick to get more aerodynamically friendly and increase propulsive force. The secret is a shart and blade design manufactured in a continuous shape that makes the our less visible to the wind on the recovery and lets it grip the water better on the drive. It's reminiscent of the ecyling industrys early attempts at aerodynamic shapes, when vertically bladed frame designs made bikes invisible to headwinds but rough to handle in crosswinds.

The DreherAero sculls won't suffer the same fare, however, since they flatten out along the horizontal axis (while blike tubes flatten out along the vertical axis). The idea of reducing drag on the part of the machine that moves the fastet makes sense. It's unclear if the new shape would make it tougher to row on the square or the quarter-feather, but either way the tradeoff is likely worthwhile.

In addition to the aerodynamic and hydrodynamic benefits of the "continuous shape" design, Dreher claims that since the profile of the shaft matches the profile of the blade, the blade pirch will always match the sleeve pitch, eliminating the need to check pitch on the blades. Ev