

Grand Prix Hydraulics

Harken® custom hydraulic cylinders and reservoirs are powerful and efficient. These lightweight systems for Grand Prix racing boats allow crew to adjust a variety of mast and sail controls, including headstay, backstays, checkstays, inner forestay, boom vang, cunningham, jib tack, and outhaul.

Cylinders

Cylinders are engineered of lightweight 7075 high-strength aluminum or titanium with corrosion-resistant Nitronic 50 stainless or titanium rods. Pins are made of Nitronic 50 stainless, 17-4PH stainless, or titanium. As the cylinder moves, low-friction Teflon® seals reduce drag for easier control.

Reservoirs

Constructed of lightweight carbon-fiber composite, reservoirs have a 20-liter maximum size, 12-liter oil capacity, and can be pressurized to a maximum of 15 psi. Fittings are anodized aluminum and plastic to reduce weight. The reservoir's main body is translucent for easy inspection of oil levels.

Cylinders



Quantum Racing, TP52, Botin & Carkeek, Longitud Cero — Thierry Martinez photo



Reservoir