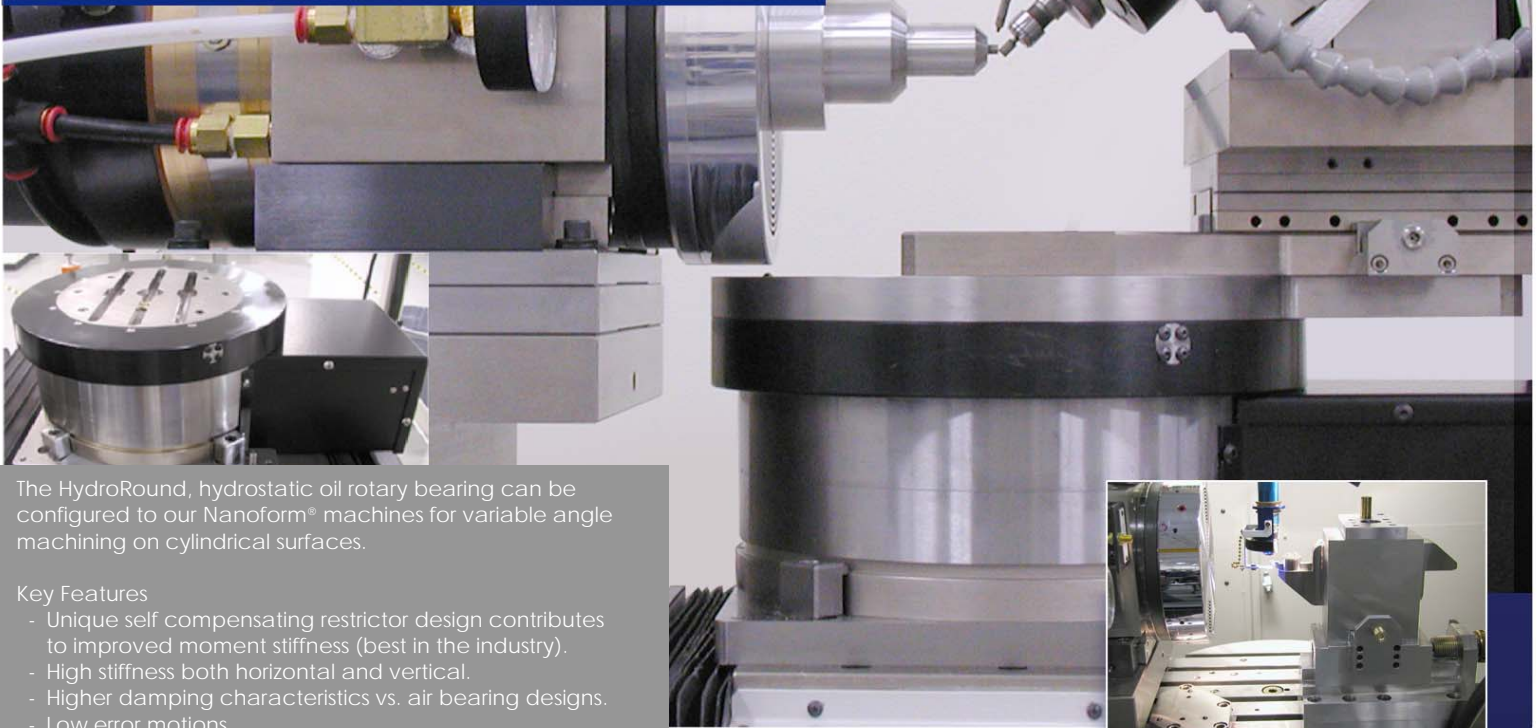


Hydro



HydroRound B-axis Ultra Precision Rotary B-axis



The HydroRound, hydrostatic oil rotary bearing can be configured to our Nanoform® machines for variable angle machining on cylindrical surfaces.

Key Features

- Unique self compensating restrictor design contributes to improved moment stiffness (best in the industry).
- High stiffness both horizontal and vertical.
- Higher damping characteristics vs. air bearing designs.
- Low error motions
- Servo controller positioning of 0.5 arc second



Specifications	381mm (700 ultra)	190mm (250 Ultra)
Table Top Size	381mm (15") \varnothing	229mm (11") \varnothing
Swing Capacity	350mm (13.8")	222mm (8.75")
Load Capacity	454 Kg (1000 lbs.)	225 Kg (500 lbs.)
Max. Speed	10 RPM	10 RPM
Motor Torque	6.8 N-m (6 Ft-lbs.)	4.1 N-m (3 Ft-lbs.)
Radial Error Motion	0.10 μ m (4 μ ") @ 1" above table	0.10 μ m (4 μ ") @ 1" above table
Coning Error	1.0nm/mm (1.0 μ "/in.)	1.0nm/mm (1.0 μ "/in.)
Radial Stiffness	525N/ μ m (3,000,000 lbs./in.)	225N/ μ m (1,280,000 lbs./in.)
Axial Stiffness	875N/ μ m (5,000,000 lbs./in.)	600N/ μ m (3,428,000 lbs./in.)
Moment Stiffness	17N-m/ μ rad. (150 lbs.-in./ μ rad.)	3.4N-m/ μ rad. (30 lbs.-in./ μ rad.)

AMETEK® Precitech, Inc.
 44 Blackbrook Road
 Keene, NH 03431 USA
 Phone: 603-357-2511
 Fax: 603-358-6174
 Precitech.machinesales@ametek.com
 www.precitech.com