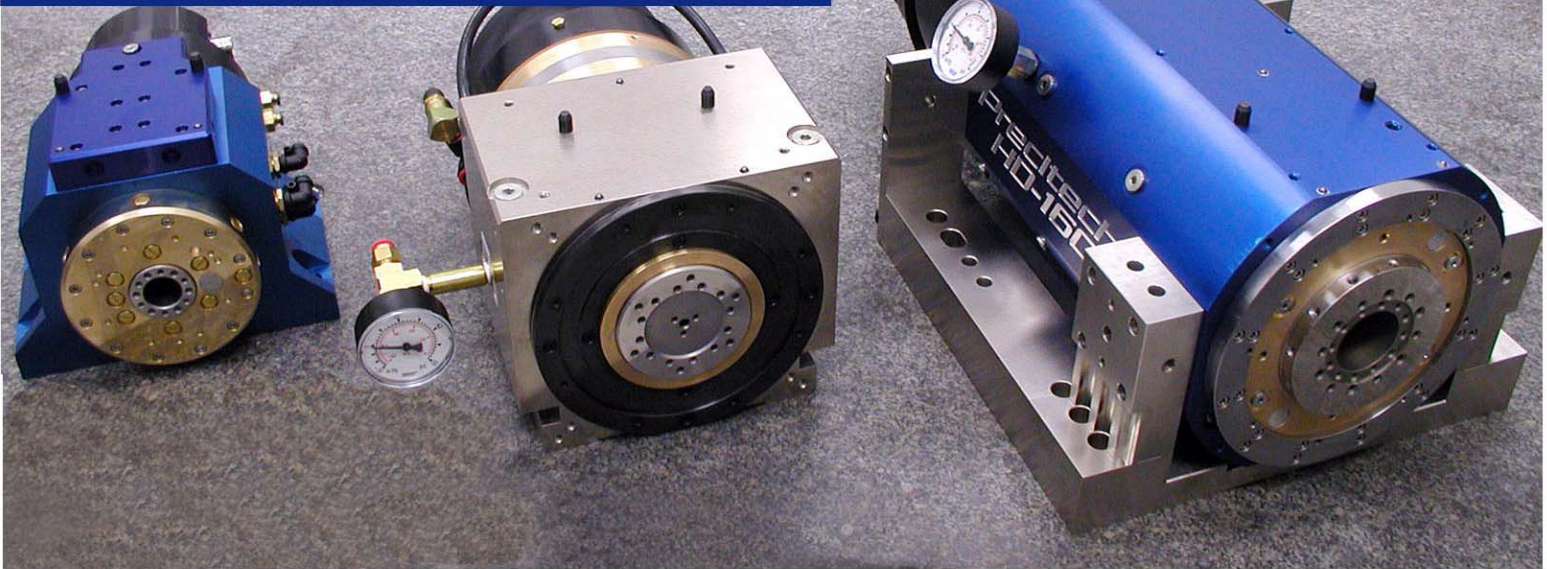


Spindles



Precitech Spindles Ultra Precision Workholding Spindles

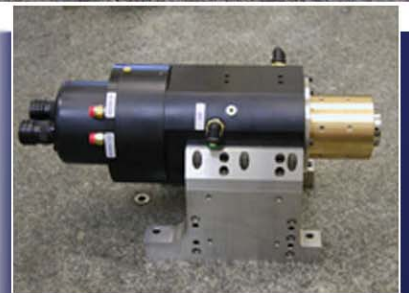


Precitech offers a multitude of both workholding, grinding or milling solutions for our machining systems

The HS, SP and HD workholding & tooling spindle shafts are ground on a high precision CNC grinding machine which enables grinding of the radial & axial faces in one setup which ensures squareness and virtually eliminates once per revolution errors.

They also utilize a hardened stainless steel shaft and bronze journal which prevents damage to the spindle in the unlikely event of spindle rotation without air.

	HS 75 High Speed	SP 150 High Performance	HD 160 Heavy Duty
Configurations	Nanoform® 250	Nanoform® 250, 700	Nanoform® 700
Air Bearing Type	Slot- type thrust bearing		
Material	Steel shaft/Bronze journal		
Motor	Integral brushless motor		
Load Capacity Spindle Nose	27Kg (60 lbs) @100 PSI	85Kg (187 lbs) @100 PSI	102Kg (225 lbs) @100 PSI
Axial Stiffness	105N/μm (600,000 lbs/in)	230N/μm (1,314,000 lbs/in)	350N/μm (2,000,000 lbs/in)
Radial Stiffness	35N/μm (200,000 lbs/in)	130N/μm (743,600 lbs/in)	175N/μm (1,000,000 lbs/in)
Motion Accuracy	Axial/Radial ≤20nm (0.8μ")	Axial/Radial ≤15nm (0.6μ")	Axial/Radial ≤50nm (2μ")
Thermal Control optional	Liquid cooled chiller +/- 0.1C Accuracy		
C-axis Feedback Resolution		0.026 arc-sec	0.026 arc-sec
C-axis Position Accuracy		+/- 2 arc-sec	+/- 2 arc-sec
C-axis Max Speed		3,000 RPM	3,000 RPM
Workholding Spindle Max Speed	18,000 RPM	7,000 RPM	5,000 RPM



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