



Precitech is a global manufacturer of innovative ultra precision machining solutions. We manufacture the key elements directly responsible for the core accuracy of our machines.

Spindles, Slideways, and Motion Control Systems.

- ▶ **Designed specifically for ultra precision machines**
- ▶ **Air bearing precision and life with roller bearing forgiveness**
- ▶ **Industry leading 3 year warranty**

	HS 75 High Speed	HS 150 High Performance	HD 160 Heavy Duty
Configurations	Nanoform® 250	Nanoform® 250, Nanoform® 700 Nanoform® 700 FreeForm	Nanoform® 700
Air Bearing Type	Slot-type thrust bearing		
Material	Steel shaft/bronze journal		
Motor	Integral brushless motor		
Ultimate Load Capacity	45 Kg (100 pounds) @100 PSI	136 Kg (300 pounds) @100 PSI	170 Kg (375 pounds) @100 PSI
Axial Stiffness	105 N/micron (600,000 pounds/inch)	230 N/micron (1,314,000 pounds/inch)	350 N/micron (2,000,000 pounds/inch)
Radial Stiffness	35 N/micron (200,000 pounds/inch)	130 N/micron (743,600 pounds/inch)	175 N/micron (1,000,000 pounds/inch)
Motion Accuracy	Axial/Radial 25nm (1.0 micro inch)	Axial/Radial ≤15 nm (0.6 micro inch)	Axial/Radial ≤ 50 nm (2 micro inch)
Thermal Control optional	Liquid cooled chiller +/- 0.1°C accuracy		
C-axis Feedback Resolution	0.018 arc-sec 9,000 line encoder	0.010 arc-sec / 0.019 arc-sec 16,200 line encoder	0.035 arc-sec 9,000 line encoder
C-axis Position Accuracy	+/- 1 arc-sec	+/- 1 arc-sec	+/- 1 arc-sec
C-axis Max Speed	2,500 RPM	1,500 RPM	2,500 RPM
Workholding Spindle Max Speed	18,000 RPM	10,000 RPM	5,000 RPM

All Precitech spindles come with an industry leading 3 year warranty.