

Fight Rising Carbide Cost!

Not all holders are the same... the right holder will extend Carbide Life!

How?

- Harmonics
- TIR
- Balance
- Gripping Force

Optimizing these conditions provides cutter to perform...

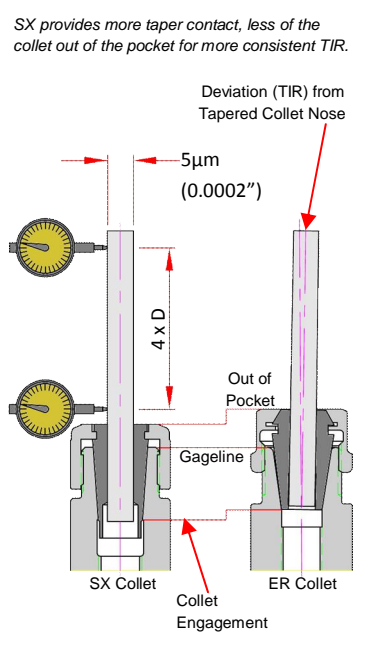
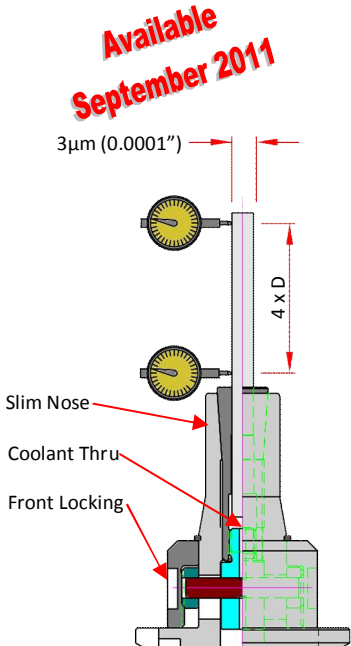
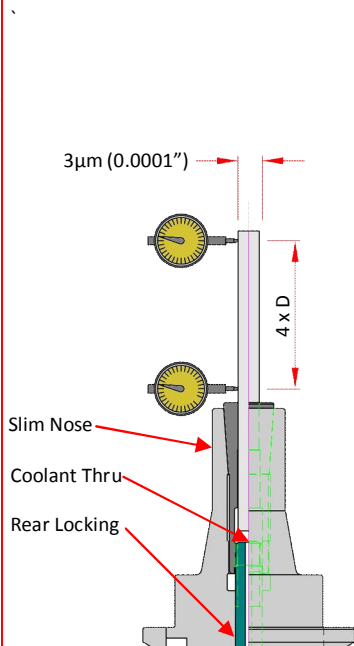
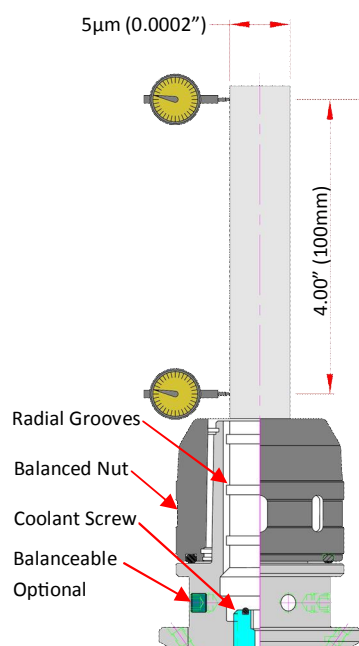
Increase cutter efficiency = Lower Carbide Cost!

- Many suppliers have a "so called" high performance tool holders, and they try to apply it to everything... Cutter designs have come a long way since many 20 year old holder technologies like Shrink and Face Contact Spindles. The new machine technologies and cutter designs create harmonics and forces not possible 2 decades ago.
- Unlike materials, holder mass and balance addresses many of these issues... with cutter life increases of 30% - 300% against standard ER, TG, DA & End Mill Adapters!



Ultimate Series - More 3 Micron options than any other manufacturer!

MC - Mill Chuck	MX - Mini Chuck	VX - Mini Chuck +	SX - Slim Chuck
<ul style="list-style-type: none"> • 3 Microns @ Nose • 5 Microns @ 100mm 	<ul style="list-style-type: none"> • 3 Microns @ 4D • "Best in the Industry" 	<ul style="list-style-type: none"> • 3 Microns @ 4D • "Best in the Industry" 	<ul style="list-style-type: none"> • 5 Microns @ 4D • 3 Micron Available
<ul style="list-style-type: none"> • Coolant Thru w/ Preset Screw 	<ul style="list-style-type: none"> • Steel Sealed Collets for 1000 PSI+ 	<ul style="list-style-type: none"> • Steel Sealed Collets for 1000 PSI+ 	<ul style="list-style-type: none"> • Coolant Cap Sealing w/ O-Ring for 750 PSI
<ul style="list-style-type: none"> • Balanced G6.3 @ 20,000 RPM 	<ul style="list-style-type: none"> • Small Nose - Rear Pull System 	<ul style="list-style-type: none"> • Small Nose - Front Locking Collar 	<ul style="list-style-type: none"> • Balanced G2.5 @ 20,000 RPM
<ul style="list-style-type: none"> • Higher Slip Torque 	<ul style="list-style-type: none"> • Balanced G2.5 @ 20,000 RPM 	<ul style="list-style-type: none"> • Balanced G2.5 @ 20,000 RPM 	



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Series:	MC - Mill Chuck	MX - Mini Chuck	VX - Mini Chuck +	SX - Slim Chuck
Designed For:	Semi-Roughing & Finish Milling	Finish Milling	Semi-Finish & Finish Milling	Performance Drilling
Replaces:	End Mill, Hydraulic, Shrink, Collet Chucks	Collet Chucks, Hydraulic	Collet Chucks, Hydraulic, Shrink	Collet Chucks (SK, ER, TG, DA)
Applications:	Hard & Soft Milling, Indexable Milling & Drilling	Milling & Small Drills High Pressure Applications High Speed Applications	Milling & Small Drills High Pressure Applications High Speed Applications	Drilling & Reaming Coolant Thru Applications High Speed Applications
Avoid:	High Feed Aluminum Carbide Cutters (High Helix) High Speed (over 20K) without a balancing machine	High Feed Aluminum Carbide Cutters (High Helix)	High Feed Aluminum Carbide Cutters (High Helix)	High Feed Aluminum Carbide Cutters (High Helix)

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Guaranteed Performance

Let our staff recommend the holder for the application and we will Guarantee Tool Life Improvement = Carbide Cost Savings or your **Money Back!**

Partnering with “your” cutting tool expert, we can improve cutting tool performance on 90% of the applications in the market today.

GTO: We are willing to guarantee the trial of any **PIONEER Ultimate** holder using a quality cutting tool in a solid machining center. Contact your local **PIONEER** representative to take your first step in reducing your carbide cost.



PIONEER Premium Tool & Work Holding

1299 Lunt Ave, Elk Grove Village, IL 60007 USA

Customer Service : 866.593.6611 / 847.593.6000 - Fax: 800.930.6436 / 847.593.6005

Web: www.pioneerNA.com - Email: sales@pioneerNA.com