

**SX**, the **BEST** performing  
collet chuck in America just  
got a little better.

Purchase any catalog  
**SX SUPER COLLET CHUCK**  
by July 31st, 2016 and receive  
a **COLLET FOR FREE!**

Not only will we Double your tool life  
over ER and Reduce your cutting tools  
cost but we will give you a Standard or  
Coolant SX Collet 3mm or larger **FREE!**

Need a Hand Checked on 3 Axis's  
Ultimate Precision **3 MICRON** TIR @ 4D?  
Add \$30

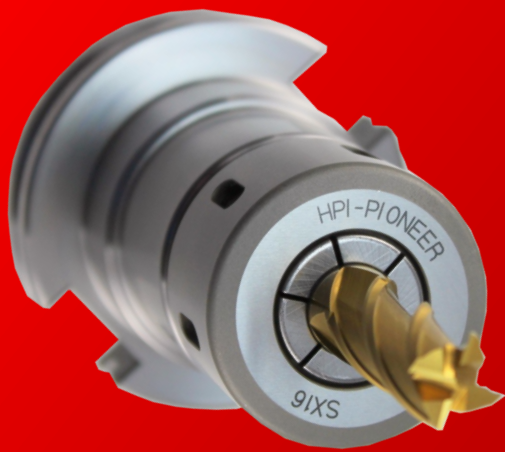
ER comparison is from side by side milling and drilling testing. Your results may vary.

Offer is a free matching collet, 3mm or larger (1/8" or larger) standard or coolant collet of  
5 microns @ 4 times diameter from the face of the chuck. For an additional \$30 list you can upgrade  
your collet to an Ultimate Precision of 3 microns @ 4 times diameter.

Offer ends July 31st, 2016

Inventory may vary, contact customer service @ [sales@PioneerNA.com](mailto:sales@PioneerNA.com) or register on our web site at  
[access.pioneer-na.com](http://access.pioneer-na.com) for inventory and pricing access.





# Drilling, Finish Milling & Reaming

*SX consistent TIR and Flat Head Design provides improved tool life on every tool change!*

## Milling

**Reduced Harmonic Design**

When gage-lines are aligned, SX16 sits deeper in the chuck with less overhang and more shank support than ER32.

The Flat Locking Surface eliminates any influence from the locking nut for consistency on every tool change.

Milling with a collet is all about radial support and Runout (TIR). SX Collets set deeper in the pocket providing 1/2 or less TIR than ER, resulting in superior performance.



## Drilling, Thread Milling & Reaming

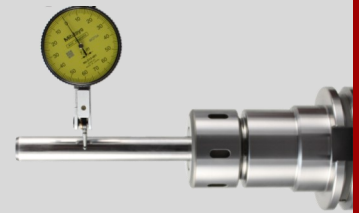
**T.I.R. - 3µm @ 4D, Second to None!**

- ◆ All SX-P Collets are hand inspected and checked 3 times for guaranteed performance
- ◆ Standard 5µm Grade Available
- ◆ Fraction & Inch Sizes



### Collet TIR

Collet Class	Max. TIR @ Distance
SX	0.0002" @ 4D
<b>SX-P</b>	<b>0.0001" @ 4D</b>
General ER	0.0006" @ 2D
Better ER	0.0004" @ 2D
ER-UP	0.0002" @ 2D

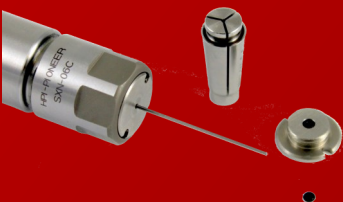


## Why SX?

- ◆ More surface engagement for superior support
- ◆ SX 8 Degree Collet taper supplies 2 lbs of locking pressure for every 1 lbs of locking torque, ER is 16 degree which is 1:1
- ◆ 1/2 TIR than "Better" ER Collets @ twice the distance
- ◆ Square locking shoulder, reduces TIR effect from locking nut
- ◆ Slim Nose Design

## High Pressure Coolant Collet & Caps

SX Coolant Collet supply up to 2,000 psi where Caps supply up to 1,000 psi coolant seal. The threaded cap design when properly tightened has no effect on the TIR of the assembly, even at 30D!



**Jet-Blast** also available for solid cutting tools.



## 3 Micron Provides Results

Shown below a 1/4" at 10X. Worst Case Runout Shown with each collet at maximum TIR.

