

# New Stainless Steel Ultra Precision ER Collets Now available in 0.0001" TIR @ 3D



## PIONEER Ultra Precision ER Collets

### Optimize your work in many ways:

Pioneer has updated our collet offering to meet the high demands of precision cutting tools and high performance applications.

Pioneer new stainless steel collets are made from 420 Stainless and hardened to Rc45.



**5 micron (0.0002") TIR  
@ 3x Dia**

**Optional Hand Inspected in Chicago  
3 micron (0.0001") TIR @ 3x Dia**

## Stainless Steel Precision Collets

Pioneer Stainless Steel Collets are only available in a 5 micron (0.0002") TIR @ 3D or 3 Micron (0.0001") TIR @ 3D.

The picture to the right is a standard ER collet and a Stainless Steel Collet that were submerged in Chicago tap water for 3 months.

The stainless collet showed no corrosion anywhere compared to the standard collet.

420 Stainless is a 12% Chromium high carbon material which provides high hardenability and superior corrosion resistance. 420 Stainless allows us to harden the collets to Rc45, similar hardness as most standard ER collets in the market today.

Available in ER11-ER32 in select sizes.



### PIONEER N.A.

641 Fargo Ave,  
Elk Grove Village IL, 60007

**Designed and Engineered by Pioneer in the USA**

847-593-6000  
www.PioneerNA.com

# New Stainless Steel

## Ultra Precision ER Collets



Add "P" at the end of the number for 0.0001" TIR @ 3D

Inch		Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D
Inch	Inch	ER11UP Stainless Steel	ER16UP Stainless Steel	ER20UP Stainless Steel	ER25UP Stainless Steel	ER32UP Stainless Steel
0.1250	0.0856	ER11-0125UP	ER16-0125UP	ER20-0125UP	ER25-0125UP	ER32-0125UP
0.1875	0.1481	ER11-0187UP	ER16-0187UP	ER20-0187UP	ER25-0187UP	ER32-0187UP
0.2500	0.2106	ER11-0250UP	ER16-0250UP	ER20-0250UP	ER25-0250UP	ER32-0250UP
0.3125	0.2731		ER16-0312UP	ER20-0312UP	ER25-0312UP	ER32-0312UP
0.3750	0.3356		ER16-0375UP	ER20-0375UP	ER25-0375UP	ER32-0375UP
0.4375	0.3981			ER20-0438UP	ER25-0438UP	ER32-0438UP
0.5000	0.4606			ER20-0500UP	ER25-0500UP	ER32-0500UP
0.5625	0.5231				ER25-0563UP	ER32-0563UP
0.6250	0.5856				ER25-0625UP	ER32-0625UP
0.6875	0.6481					ER32-0688UP
0.7500	0.7106					ER32-0750UP

Metric		Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D	Ultra-Precision 5 Micron @ 3D
Metric	Metric	ER11UP Stainless Steel	ER16UP Stainless Steel	ER20UP Stainless Steel	ER25UP Stainless Steel	ER32UP Stainless Steel
3.0	2.0	ER11-M030UP	ER16-M030UP	ER20-M030UP	ER25-M030UP	ER32-M030UP
3.5	2.5	ER11-M035UP	ER16-M035UP	ER20-M035UP	ER25-M035UP	ER32-M035UP
4.0	3.0	ER11-M040UP	ER16-M040UP	ER20-M040UP	ER25-M040UP	ER32-M040UP
5.0	4.0	ER11-M050UP	ER16-M050UP	ER20-M050UP	ER25-M050UP	ER32-M050UP
6.0	5.0	ER11-M060UP	ER16-M060UP	ER20-M060UP	ER25-M060UP	ER32-M060UP
7.0	6.0	ER11-M070UP	ER16-M070UP	ER20-M070UP	ER25-M070UP	ER32-M070UP
8.0	7.0		ER16-M080UP	ER20-M080UP	ER25-M080UP	ER32-M080UP
9.0	8.0		ER16-M090UP	ER20-M090UP	ER25-M090UP	ER32-M090UP
10.0	9.0		ER16-M100UP	ER20-M100UP	ER25-M100UP	ER32-M100UP
11.0	10.0			ER20-M110UP	ER25-M110UP	ER32-M110UP
12.0	11.0			ER20-M120UP	ER25-M120UP	ER32-M120UP
13.0	12.0			ER20-M130UP	ER25-M130UP	ER32-M130UP
14.0	13.0				ER25-M140UP	ER32-M140UP
15.0	14.0				ER25-M150UP	ER32-M150UP
16.0	15.0				ER25-M160UP	ER32-M160UP
17.0	16.0					ER32-M170UP
18.0	17.0					ER32-M180UP
19.0	18.0					ER32-M190UP
20.0	19.0					ER32-M200UP

Collet Sets				Ultra-Precision 5 Micron @ 3D ER-UP Stainless Steel
QTY	Sizes	Incr.		
ER11	9	1.0-7.0mm	0.5mm	ER11 MSET UP SUM - 9PCS
ER16	5	1/8-3/8	1/16	ER16 ISET UP SUM - 5PCS
ER16	8	3.0-10.0mm	1mm	ER16 MSET UP SUM - 8PCS
ER20	7	1/8-1/2	1/16	ER20 ISET UP SUM - 7PCS
ER20	11	3-13mm	1mm	ER20 MSET UP SUM - 11PCS
ER25	9	1/8-5/8	1/16	ER25 ISET UP SUM - 9PCS
ER25	15	3.0-16.0mm	1mm	ER25 MSET UP SUM - 14PCS
ER32	12	1/8-3/4	1/16	ER32 ISET UP SUM - 11PCS
ER32	18	3-20mm	1mm	ER32 MSET UP SUM - 18PCS

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