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## General product information

Please refer to general catalog - K055-K158.

- HSK A/E..... K055      - CAT ..... K079  
- Tung Shrink..... K070

## Added products



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Improved clamping performance of ER11 spring collets

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### ER rubber sealed spring collets

Improved clamping performance of new ER sealed spring collets

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## Improved clamping performance of ER11 spring collets





# ER11 spring collets with improved clamping performance

New ER11 spring collet clamping range has been reduced from 1 mm to 0.5 mm (0.039" to 0.020"), in order to comply with the DIN6499 / ISO15488-B standard

- Special coating to increase wear resistance and improve corrosion protection
- High surface finish to guarantee consistent repeatability and prolonged runout

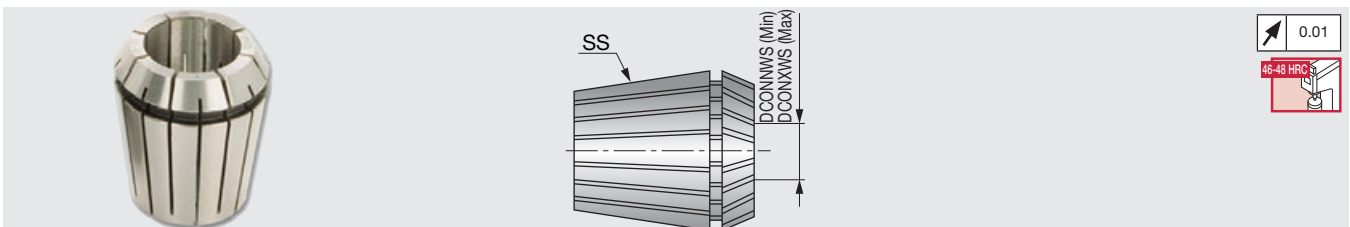
## Advantages

- Increased rigidity
- Higher accuracy
- Better clamping force
- Consistent repeatability



## ER-SPR

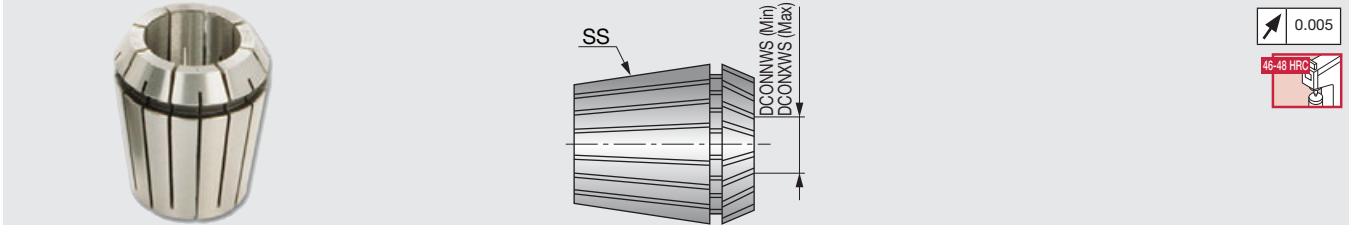
ER 11 SPR collets (metric)



Metric	SS	DCONNWS (Min)	DCONXWS (Max)	Metric	SS	DCONNWS (Min)	DCONXWS (Max)
ER11SPR0.5-1.0	ER11	0.5	1	ER11SPR4.0-4.5	ER11	4	4.5
ER11SPR1.0-1.5	ER11	1	1.5	ER11SPR4.5-5.0	ER11	4.5	5
ER11SPR1.5-2.0	ER11	1.5	2	ER11SPR5.0-5.5	ER11	5	5.5
ER11SPR2.0-2.5	ER11	2	2.5	ER11SPR5.5-6.0	ER11	5.5	6
ER11SPR2.5-3.0	ER11	2.5	3	ER11SPR6.0-6.5	ER11	6	6.5
ER11SPR3.0-3.5	ER11	3	3.5	ER11SPR6.5-7.0	ER11	6.5	7
ER11SPR3.5-4.0	ER11	3.5	4				

## ER-SPR-AA

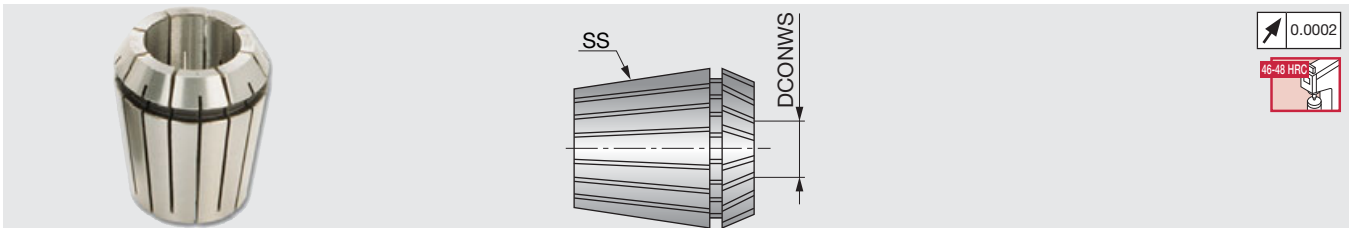
### ER 11 AA collets (metric)



Metric	SS	DCONNWS (Min)	DCONXWS (Max)	Metric	SS	DCONNWS (Min)	DCONXWS (Max)
ER11SPR0.5-1.0AA	ER11	0.5	1	ER11SPR4.0-4.5AA	ER11	4	4.5
ER11SPR1.0-1.5AA	ER11	1	1.5	ER11SPR4.5-5.0AA	ER11	4.5	5
ER11SPR1.5-2.0AA	ER11	1.5	2	ER11SPR5.0-5.5AA	ER11	5	5.5
ER11SPR2.0-2.5AA	ER11	2	2.5	ER11SPR5.5-6.0AA	ER11	5.5	6
ER11SPR2.5-3.0AA	ER11	2.5	3	ER11SPR6.0-6.5AA	ER11	6	6.5
ER11SPR3.0-3.5AA	ER11	3	3.5	ER11SPR6.5-7.0AA	ER11	6.5	7
ER11SPR3.5-4.0AA	ER11	3.5	4				

## ER-EX-AA

### ER 11 AA collets (inch)



Inch	SS	DCONWS	Inch	SS	DCONWS
ER11EX.1/16AA	ER11	0.062	ER11EX.3/16AA	ER11	0.187
ER11EX.3/32AA	ER11	0.094	ER11EX.7/32AA	ER11	0.219
ER11EX.1/8AA	ER11	0.125	ER11EX.1/4AA	ER11	0.25
ER11EX.5/32AA	ER11	0.156			

## SET ER SPR

### SET ER 11 SPR collets

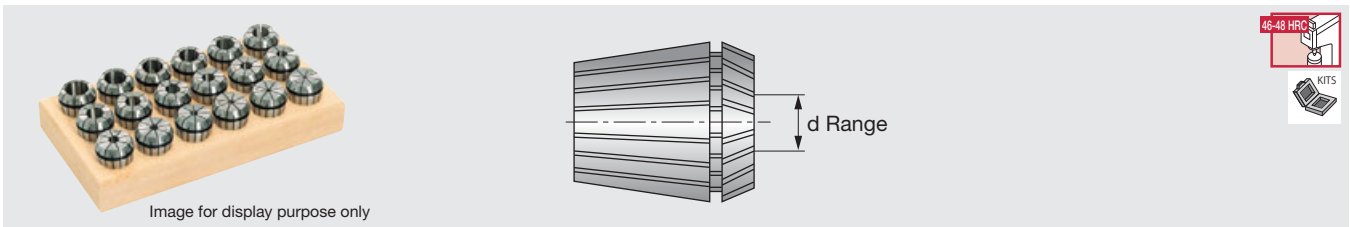


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Metric	Qty	d Range	Run out
SETER11SPR13	13	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	0.01
SETER11SPR13AA	13	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	0.005
SETER11SPR7EM	7	1, 2, 3, 4, 5, 6, 7	0.01
SETER11SPR7EMAA	7	1, 2, 3, 4, 5, 6, 7	0.005
SETER11SPREX.AA INCH*	5	1/8, 5/32, 3/16, 7/32, 1/4	0.0002

\*inch

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## Improved clamping performance of new ER sealed spring collets





## New ER sealed spring collets with improved clamping performance

New ER sealed spring collets, grade AA, provide improved performance as shown below

- High surface finish to guarantee consistent repeatability and prolonged runout
- Special coating to increase wear resistance and improve corrosion protection

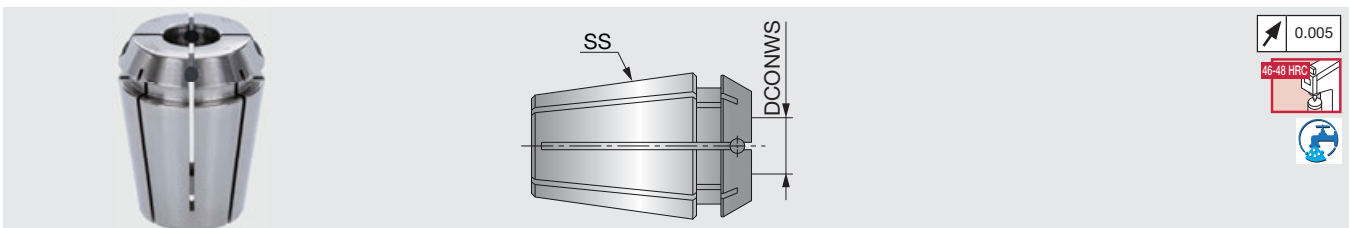
### Advantages

- Increased rigidity
- Higher accuracy
- Better clamping force
- Consistent repeatability



### ER-SEAL-AA

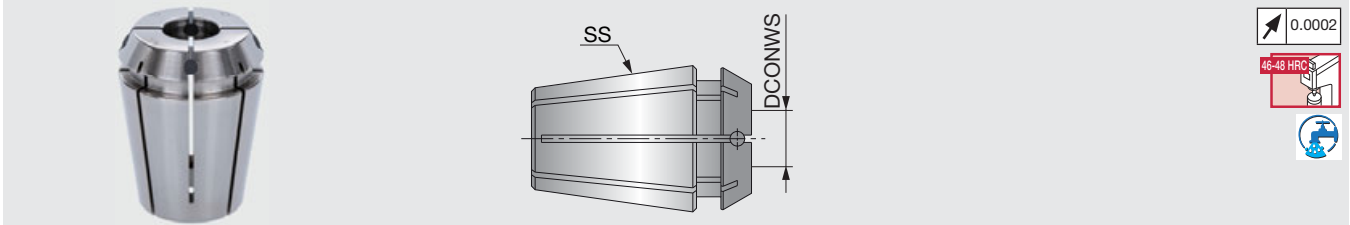
ER sealed spring collets (metric)



Metric	SS	DCONWS	Metric	SS	DCONWS	Metric	SS	DCONWS	Metric	SS	DCONWS
ER11SEAL3AA	ER11	3	ER20SEAL9AA	ER20	9	ER25SEAL16AA	ER25	16	ER32SEAL19AA	ER32	19
ER11SEAL4AA	ER11	4	ER20SEAL10AA	ER20	10	ER32SEAL4AA	ER32	4	ER32SEAL20AA	ER32	20
ER11SEAL5AA	ER11	5	ER20SEAL11AA	ER20	11	ER32SEAL5AA	ER32	5	ER40SEAL6AA	ER40	6
ER11SEAL6AA	ER11	6	ER20SEAL12AA	ER20	12	ER32SEAL6AA	ER32	6	ER40SEAL8AA	ER40	8
ER16SEAL4AA	ER16	4	ER25SEAL4AA	ER25	4	ER32SEAL7AA	ER32	7	ER40SEAL10AA	ER40	10
ER16SEAL5AA	ER16	5	ER25SEAL5AA	ER25	5	ER32SEAL8AA	ER32	8	ER40SEAL12AA	ER40	12
ER16SEAL6AA	ER16	6	ER25SEAL6AA	ER25	6	ER32SEAL9AA	ER32	9	ER40SEAL14AA	ER40	14
ER16SEAL7AA	ER16	7	ER25SEAL7AA	ER25	7	ER32SEAL10AA	ER32	10	ER40SEAL16AA	ER40	16
ER16SEAL8AA	ER16	8	ER25SEAL8AA	ER25	8	ER32SEAL11AA	ER32	11	ER40SEAL18AA	ER40	18
ER16SEAL9AA	ER16	9	ER25SEAL9AA	ER25	9	ER32SEAL12AA	ER32	12	ER40SEAL20AA	ER40	20
ER16SEAL10AA	ER16	10	ER25SEAL10AA	ER25	10	ER32SEAL13AA	ER32	13	ER40SEAL22AA	ER40	22
ER20SEAL4AA	ER20	4	ER25SEAL11AA	ER25	11	ER32SEAL14AA	ER32	14	ER40SEAL25AA	ER40	25
ER20SEAL5AA	ER20	5	ER25SEAL12AA	ER25	12	ER32SEAL15AA	ER32	15			
ER20SEAL6AA	ER20	6	ER25SEAL13AA	ER25	13	ER32SEAL16AA	ER32	16			
ER20SEAL7AA	ER20	7	ER25SEAL14AA	ER25	14	ER32SEAL17AA	ER32	17			
ER20SEAL8AA	ER20	8	ER25SEAL15AA	ER25	15	ER32SEAL18AA	ER32	18			

## ER-SEAL-AA

ER sealed spring collets (inch)



Inch	SS	DCONWS	Inch	SS	DCONWS	Inch	SS	DCONWS
ER11SEAL1/4AA	ER11	0.250	ER20SEAL1/2AA	ER20	0.500	ER32SEAL3/8AA	ER32	0.375
ER11SEAL1/8AA	ER11	0.125	ER25SEAL1/8AA	ER25	0.125	ER32SEAL7/16AA	ER32	0.438
ER11SEAL3/16AA	ER11	0.188	ER25SEAL3/16AA	ER25	0.188	ER32SEAL1/2AA	ER32	0.500
ER16SEAL1/8AA	ER16	0.125	ER25SEAL1/4AA	ER25	0.250	ER32SEAL9/16AA	ER32	0.563
ER16SEAL3/16AA	ER16	0.188	ER25SEAL5/16AA	ER25	0.313	ER32SEAL5/8AA	ER32	0.625
ER16SEAL1/4AA	ER16	0.250	ER25SEAL3/8AA	ER25	0.375	ER32SEAL11/16AA	ER32	0.688
ER16SEAL5/16AA	ER16	0.313	ER25SEAL7/16AA	ER25	0.438	ER32SEAL3/4AA	ER32	0.750
ER16SEAL3/8AA	ER16	0.375	ER25SEAL1/2AA	ER25	0.500	ER40SEAL1/4AA	ER40	0.125
ER20SEAL1/8AA	ER20	0.125	ER25SEAL9/16AA	ER25	0.563	ER40SEAL3/8AA	ER40	0.375
ER20SEAL3/16AA	ER20	0.188	ER25SEAL5/8AA	ER25	0.625	ER40SEAL1/2AA	ER40	0.500
ER20SEAL1/4AA	ER20	0.250	ER32SEAL1/8AA	ER32	0.125	ER40SEAL5/8AA	ER40	0.625
ER20SEAL5/16AA	ER20	0.313	ER32SEAL3/16AA	ER32	0.188	ER40SEAL3/4AA	ER40	0.750
ER20SEAL3/8AA	ER20	0.375	ER32SEAL1/4AA	ER32	0.250	ER40SEAL1AA	ER40	1.000
ER20SEAL7/16AA	ER20	0.438	ER32SEAL5/16AA	ER32	0.313			

## SET ER-SEAL-AA

SET ER sealed spring collets

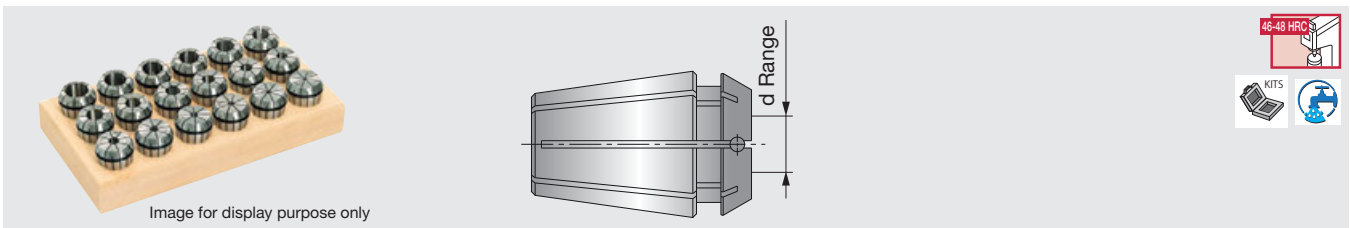


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Metric	Qty	d Range
SETER16SEAL7AA	7	4, 5, 6, 7, 8, 9, 10
SETER20SEAL9AA	9	4, 5, 6, 7, 8, 9, 10, 11, 12
SETER25SEAL13AA	13	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
SETER32SEAL17AA	17	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
SETER40SEAL10AA	10	6, 8, 10, 12, 14, 16, 18, 20, 22, 25
SETER16SEAL5AAINCH*	5	1/8, 3/16, 1/4, 5/16, 3/8
SETER20SEAL7AAINCH*	7	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2
SETER25SEAL9AAINCH*	9	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8
SETER32SEAL11AAINCH*	11	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4
SETER40SEAL6AAINCH*	6	1/4, 3/8, 1/2, 5/8, 3/4, 1

\*inch

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