

TUNGHOLD

Tungaloy Report No. 389S1-G

Improved clamping performance of ER spring collets





ER spring collets with improved clamping performance

- New ER11, ER16, ER20, ER25 spring collet clamping range has been reduced from 1 mm to 0.5 mm, 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

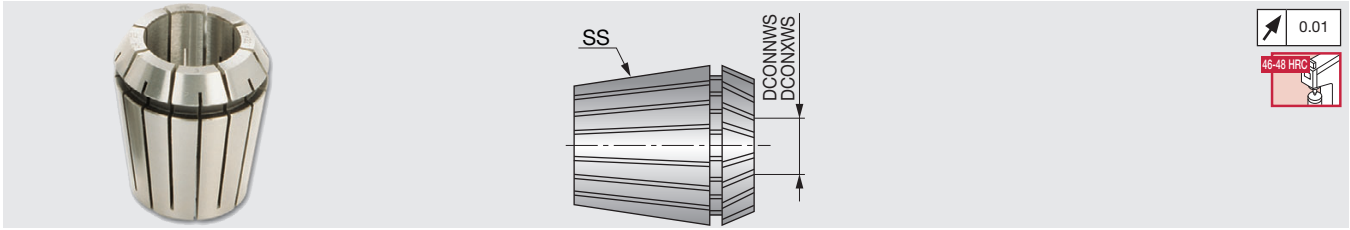
Advantages

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



ER-SPR

ER spring collets (Metric, DIN6499)



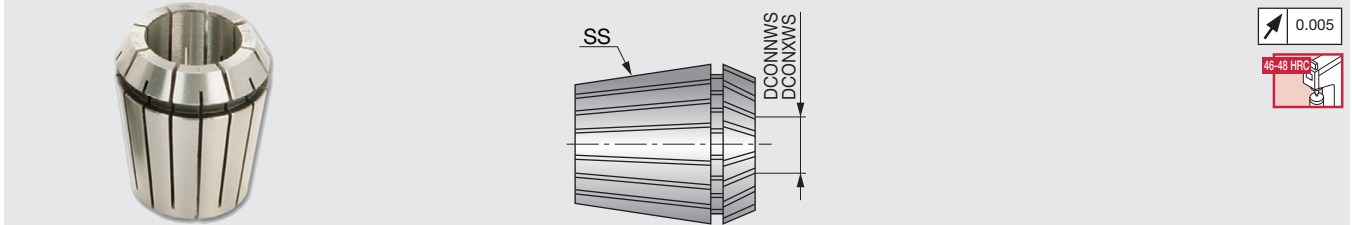
	Designation	SS	DCONNWS	DCONXWS	Designation	SS	DCONNWS	DCONXWS
	ER11SPR0.5-1.0	ER11	0.5	1	ER32SPR2-3	ER32	2	3
New	ER11SPR1.0-1.5	ER11	1	1.5	ER32SPR3-4	ER32	3	4
New	ER11SPR1.5-2.0	ER11	1.5	2	ER32SPR4-5	ER32	4	5
New	ER11SPR2.0-2.5	ER11	2	2.5	ER32SPR5-6	ER32	5	6
New	ER11SPR2.5-3.0	ER11	2.5	3	ER32SPR6-7	ER32	6	7
New	ER11SPR3.0-3.5	ER11	3	3.5	ER32SPR7-8	ER32	7	8
New	ER11SPR3.5-4.0	ER11	3.5	4	ER32SPR8-9	ER32	8	9
New	ER11SPR4.0-4.5	ER11	4	4.5	ER32SPR9-10	ER32	9	10
New	ER11SPR4.5-5.0	ER11	4.5	5	ER32SPR10-11	ER32	10	11
New	ER11SPR5.0-5.5	ER11	5	5.5	ER32SPR11-12	ER32	11	12
New	ER11SPR5.5-6.0	ER11	5.5	6	ER32SPR12-13	ER32	12	13
New	ER11SPR6.0-6.5	ER11	6	6.5	ER32SPR13-14	ER32	13	14
New	ER11SPR6.5-7.0	ER11	6.5	7	ER32SPR14-15	ER32	14	15
	ER16SPR0.5-1	ER16	0.5	1	ER32SPR15-16	ER32	15	16
New	ER16SPR1-1.5	ER16	1	1.5	ER32SPR16-17	ER32	16	17
New	ER16SPR1.5-2	ER16	1.5	2	ER32SPR17-18	ER32	17	18
	ER16SPR2-3 (*)	ER16	2	3.1	ER32SPR18-19	ER32	18	19
	ER16SPR3-4 (*)	ER16	3.2	4	ER32SPR19-20	ER32	19	20
	ER16SPR4-5	ER16	4	5	ER40SPR3-4	ER40	3	4
	ER16SPR5-6	ER16	5	6	ER40SPR4-5	ER40	4	5
	ER16SPR6-7	ER16	6	7	ER40SPR5-6	ER40	5	6
	ER16SPR7-8	ER16	7	8	ER40SPR6-7	ER40	6	7
	ER16SPR8-9	ER16	8	9	ER40SPR7-8	ER40	7	8
	ER16SPR9-10	ER16	9	10	ER40SPR8-9	ER40	8	9
New	ER20SPR1-1.5	ER20	1	1.5	ER40SPR9-10	ER40	9	10
New	ER20SPR1.5-2	ER20	1.5	2	ER40SPR10-11	ER40	10	11
	ER20SPR2-3	ER20	2	3	ER40SPR11-12	ER40	11	12
	ER20SPR3-4	ER20	3	4	ER40SPR12-13	ER40	12	13
	ER20SPR4-5	ER20	4	5	ER40SPR13-14	ER40	13	14
	ER20SPR5-6	ER20	5	6	ER40SPR14-15	ER40	14	15
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	ER20SPR9-10	ER20	9	10	ER40SPR18-19	ER40	18	19
	ER20SPR10-11	ER20	10	11	ER40SPR19-20	ER40	19	20
	ER20SPR11-12	ER20	11	12	ER40SPR20-21	ER40	20	21
	ER20SPR12-13	ER20	12	13	ER40SPR21-22	ER40	21	22
New	ER25SPR1-1.5	ER25	1	1.5	ER40SPR22-23	ER40	22	23
New	ER25SPR1.5-2	ER25	1.5	2	ER40SPR23-24	ER40	23	24
	ER25SPR2-3	ER25	2	3	ER40SPR24-25	ER40	24	25
	ER25SPR3-4	ER25	3	4	ER40SPR25-26	ER40	25	26
	ER25SPR4-5	ER25	4	5	ER50SPR10-12	ER50	10	12
	ER25SPR5-6	ER25	5	6	ER50SPR12-14	ER50	12	14
	ER25SPR6-7	ER25	6	7	ER50SPR14-16	ER50	14	16
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	ER25SPR10-11	ER25	10	11	ER50SPR22-24	ER50	22	24
	ER25SPR11-12	ER25	11	12	ER50SPR24-26	ER50	24	26
	ER25SPR12-13	ER25	12	13	ER50SPR26-28	ER50	26	28
	ER25SPR13-14	ER25	13	14	ER50SPR28-30	ER50	28	30
	ER25SPR14-15	ER25	14	15	ER50SPR30-32	ER50	30	32
	ER25SPR15-16	ER25	15	16	ER50SPR32-34	ER50	32	34

(*) For shank diameter ø3 - ø3.1 use *ER16SPR2-3"

(Unit: mm)

ER-SPR-AA

ER spring AA collets (Metric, DIN6499)



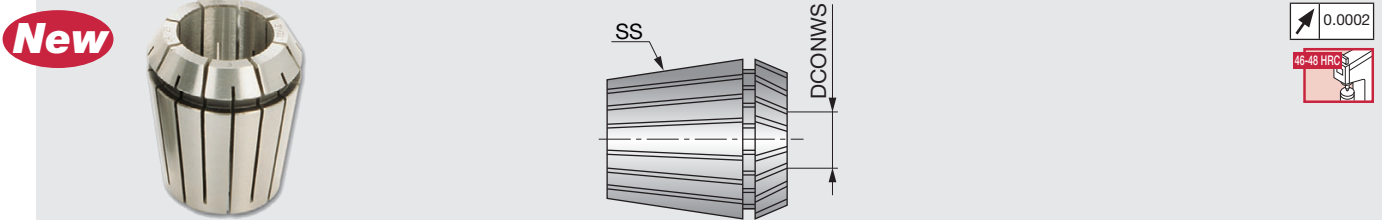
	Designation	SS	DCONNWS	DCONXWS	Designation	SS	DCONNWS	DCONXWS
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New	ER11SPR1.0-1.5AA	ER11	1	1.5	ER25SPR13-14AA	ER25	13	14
New	ER11SPR1.5-2.0AA	ER11	1.5	2	ER25SPR14-15AA	ER25	14	15
New	ER11SPR2.0-2.5AA	ER11	2	2.5	ER25SPR15-16AA	ER25	15	16
New	ER11SPR2.5-3.0AA	ER11	2.5	3	ER32SPR2-3AA	ER32	2	3
New	ER11SPR3.0-3.5AA	ER11	3	3.5	ER32SPR3-4AA	ER32	3	4
New	ER11SPR3.5-4.0AA	ER11	3.5	4	ER32SPR4-5AA	ER32	4	5
New	ER11SPR4.0-4.5AA	ER11	4	4.5	ER32SPR5-6AA	ER32	5	6
New	ER11SPR4.5-5.0AA	ER11	4.5	5	ER32SPR6-7AA	ER32	6	7
New	ER11SPR5.0-5.5AA	ER11	5	5.5	ER32SPR7-8AA	ER32	7	8
New	ER11SPR5.5-6.0AA	ER11	5.5	6	ER32SPR8-9AA	ER32	8	9
New	ER11SPR6.0-6.5AA	ER11	6	6.5	ER32SPR9-10AA	ER32	9	10
New	ER11SPR6.5-7.0AA	ER11	6.5	7	ER32SPR10-11AA	ER32	10	11
	ER16SPR0.5-1AA	ER16	0.5	1	ER32SPR11-12AA	ER32	11	12
New	ER16SPR1.5-2AA	ER16	1.5	2	ER32SPR12-13AA	ER32	12	13
	ER16SPR2-3AA (*)	ER16	2	3.1	ER32SPR13-14AA	ER32	13	14
	ER16SPR3-4AA (*)	ER16	3.2	4	ER32SPR14-15AA	ER32	14	15
	ER16SPR4-5AA	ER16	4	5	ER32SPR15-16AA	ER32	15	16
	ER16SPR5-6AA	ER16	5	6	ER32SPR16-17AA	ER32	16	17
	ER16SPR6-7AA	ER16	6	7	ER32SPR17-18AA	ER32	17	18
	ER16SPR7-8AA	ER16	7	8	ER32SPR18-19AA	ER32	18	19
	ER16SPR8-9AA	ER16	8	9	ER32SPR19-20AA	ER32	19	20
	ER16SPR9-10AA	ER16	9	10	ER40SPR3-4AA	ER40	3	4
New	ER20SPR1.5-2AA	ER20	1.5	2	ER40SPR4-5AA	ER40	4	5
	ER20SPR2-3AA	ER20	2	3	ER40SPR5-6AA	ER40	5	6
	ER20SPR3-4AA	ER20	3	4	ER40SPR6-7AA	ER40	6	7
	ER20SPR4-5AA	ER20	4	5	ER40SPR7-8AA	ER40	7	8
	ER20SPR5-6AA	ER20	5	6	ER40SPR8-9AA	ER40	8	9
	ER20SPR6-7AA	ER20	6	7	ER40SPR9-10AA	ER40	9	10
	ER20SPR7-8AA	ER20	7	8	ER40SPR10-11AA	ER40	10	11
	ER20SPR8-9AA	ER20	8	9	ER40SPR11-12AA	ER40	11	12
	ER20SPR9-10AA	ER20	9	10	ER40SPR12-13AA	ER40	12	13
	ER20SPR10-11AA	ER20	10	11	ER40SPR13-14AA	ER40	13	14
	ER20SPR11-12AA	ER20	11	12	ER40SPR14-15AA	ER40	14	15
	ER20SPR12-13AA	ER20	12	13	ER40SPR15-16AA	ER40	15	16
New	ER25SPR1.5-2AA	ER25	1.5	2	ER40SPR16-17AA	ER40	16	17
	ER25SPR2-3AA	ER25	2	3	ER40SPR17-18AA	ER40	17	18
	ER25SPR3-4AA	ER25	3	4	ER40SPR18-19AA	ER40	18	19
	ER25SPR4-5AA	ER25	4	5	ER40SPR19-20AA	ER40	19	20
	ER25SPR5-6AA	ER25	5	6	ER40SPR20-21AA	ER40	20	21
	ER25SPR6-7AA	ER25	6	7	ER40SPR21-22AA	ER40	21	22
	ER25SPR7-8AA	ER25	7	8	ER40SPR22-23AA	ER40	22	23
	ER25SPR8-9AA	ER25	8	9	ER40SPR23-24AA	ER40	23	24
	ER25SPR9-10AA	ER25	9	10	ER40SPR24-25AA	ER40	24	25
	ER25SPR10-11AA	ER25	10	11	ER40SPR25-26AA	ER40	25	26
	ER25SPR11-12AA	ER25	11	12				

(*) For shank diameter $\phi 3 - \phi 3.1$ use "ER16SPR2-3AA"

(Unit: mm)

ER-EX-AA

ER spring AA collets (Inch, DIN6499)

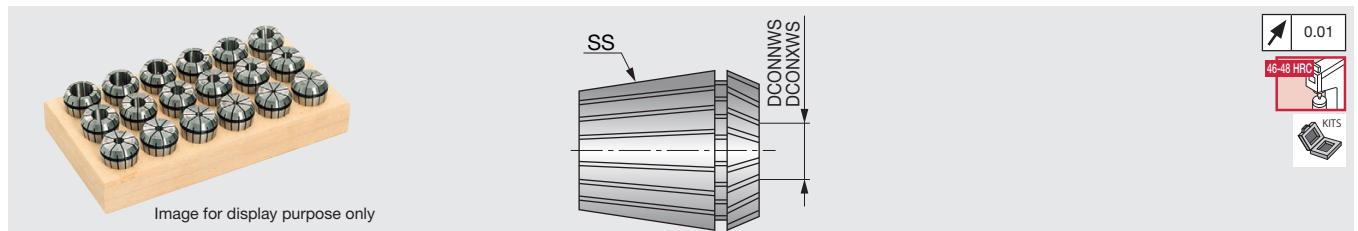


Designation	SS	DCONWS	Designation	SS	DCONWS
ER11EX.1/16AA	ER11	0.062	ER11EX.3/16AA	ER11	0.187
ER11EX.3/32AA	ER11	0.094	ER11EX.7/32AA	ER11	0.219
ER11EX.1/8AA	ER11	0.125	ER11EX.1/4AA	ER11	0.25
ER11EX.5/32AA	ER11	0.156			

(Unit: Inch)

SET-ER-SPR

Set of ER spring collets (Metric, DIN6499)

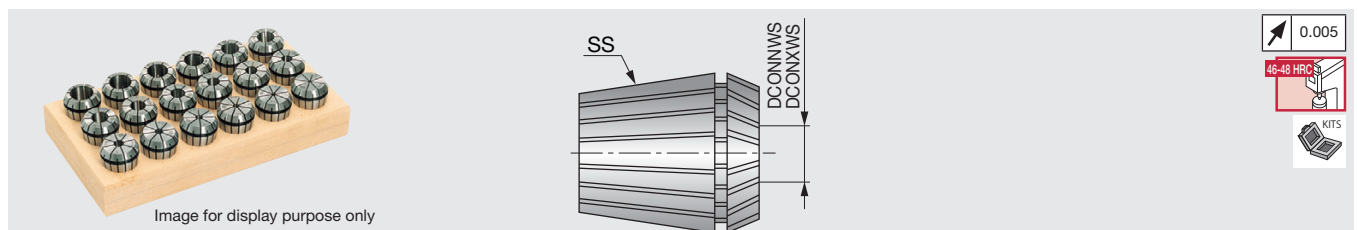


Designation	SS	Qty	DCONNWS	DCONXWS
New SETER11SPR13	ER11	13	0.5	7
SETER16SPR10	ER16	10	0.5	10
SETER20SPR12	ER20	12	1	13
SETER25SPR15	ER25	15	1	16
SETER32SPR18	ER32	18	2	20
SETER40SPR23	ER40	23	3	26
SETER50SPR12	ER50	12	10	34

(Unit: mm)

SET-ER-SPR-AA

Set of ER spring AA collets (Metric, DIN6499)



Designation	SS	Qty	DCONNWS	DCONXWS
New SETER11SPR13AA	ER11	13	0.5	7
SETER16SPR10AA	ER16	10	0.5	10
SETER20SPR12AA	ER20	12	1	13
SETER25SPR15AA	ER25	15	1	16
SETER32SPR18AA	ER32	18	2	20
SETER40SPR23AA	ER40	23	3	26

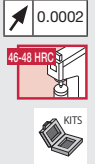
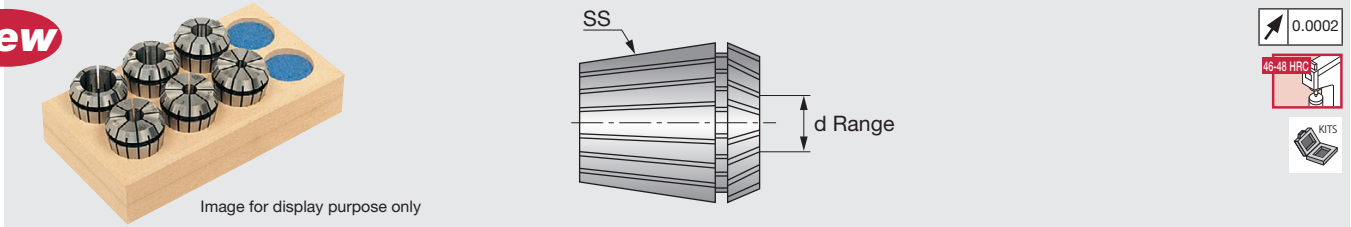
(Unit: mm)

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SET-ER-EX-SPR-AA

Set of ER spring AA collets, for endmills (Inch, DIN6499)

New

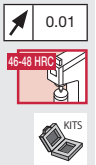
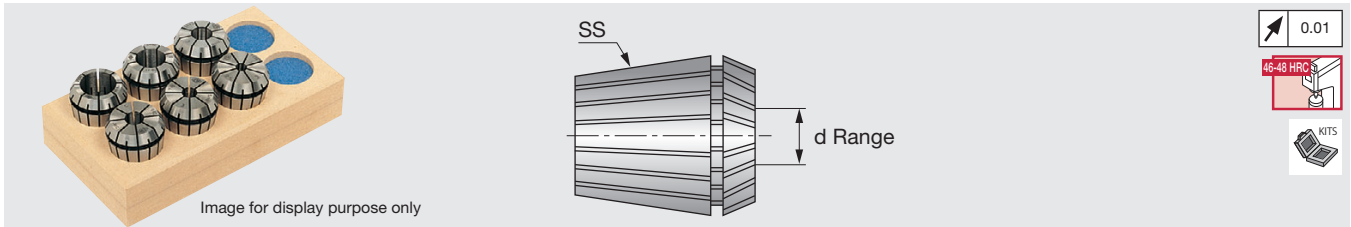


Designation	SS	Qty	Range
SETER11SPREX.AA1NCH	ER11	5	1/8, 5/32, 3/16, 7/32, 1/4

(Unit: Inch)

SET-ER-SPR-EM

Set of ER spring collets, for endmills (Metric, DIN6499)



Designation	SS	Qty	Range
SETER11SPR7EM	ER11	7	1, 2, 3, 4, 5, 6, 7
SETER16SPR8EM	ER11	8	3, 4, 5, 6, 7, 8, 9, 10
SETER20SPR5EM	ER11	5	4, 6, 8, 10, 12
SETER25SPR6EM	ER11	6	4, 6, 8, 10, 12, 16
SETER32SPR6EM	ER11	6	6, 8, 10, 12, 20
SETER40SPR7EM	ER11	7	6, 8, 10, 12, 20, 25

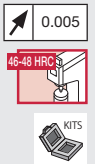
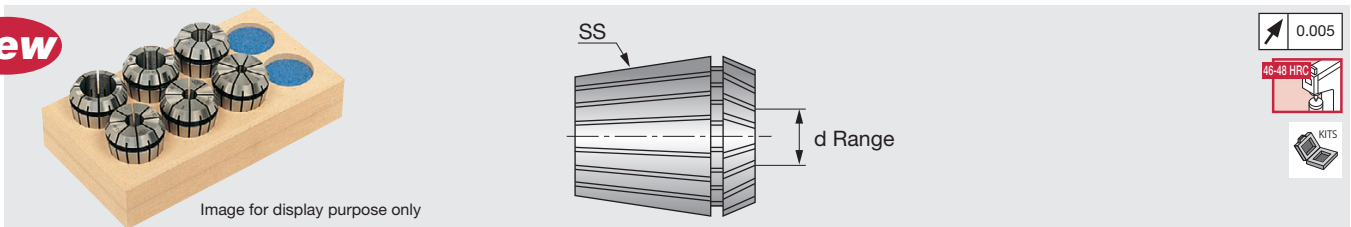
Contains popular endmill sizes only.

(Unit: mm)

SET-ER-SPR-EM-AA

Set of ER spring AA collets, for endmills (Inch, DIN6499)

New



Designation	SS	Qty	Range
SETER11SPR7EMAA	ER11	7	1, 2, 3, 4, 5, 6, 7

(Unit: Inch)

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