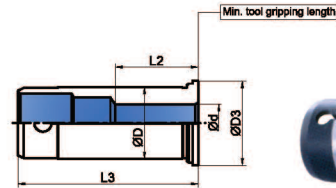
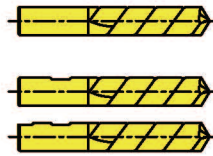




ACROW IMP

Part No.	L3	ØD	ØD3
ARH - 20 - ***	62	20	24.5
ARH - 25 - ***	64	25	29.5
ARH - 32 - ***	71	32	38
ARH - 42 - ***	80	42	48

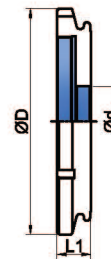
Tool shank (tolerance: h6)



Ød	L2 min. tool gripping length	Order No.			
		ARH20	ARH25	ARH32	ARH40
6	34	ARH - 20 - 060	ARH - 25 - 060	ARH - 32 - 060	ARH - 42 - 060
8	36	ARH - 20 - 080	ARH - 25 - 080	ARH - 32 - 080	ARH - 42 - 080
10	38	ARH - 20 - 100	ARH - 25 - 100	ARH - 32 - 100	ARH - 42 - 100
12	40	ARH - 20 - 120	ARH - 25 - 120	ARH - 32 - 120	ARH - 42 - 120
14	46	ARH - 20 - 140	ARH - 25 - 140	ARH - 32 - 140	ARH - 42 - 140
16	48	ARH - 20 - 160	ARH - 25 - 160	ARH - 32 - 160	ARH - 42 - 160
18	50		ARH - 25 - 180	ARH - 32 - 180	ARH - 42 - 180
20	52		ARH - 25 - 200	ARH - 32 - 200	ARH - 42 - 200
25	56			ARH - 32 - 250	ARH - 42 - 250
32	60				ARH - 42 - 320

ARH Prevented Water Lid

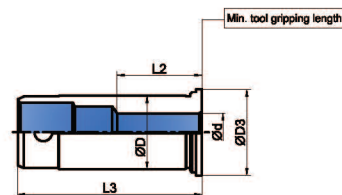
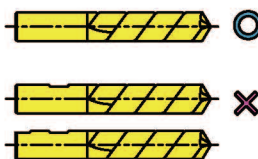
Part No.	L1	ØD	Part No. Ød	Order No.
ARHJ20 ***	8.0	33.0	6, 8, 10,.....16	ARHJ - 20 ***
ARHJ25 ***	8.5	39.0	6, 8, 10,.....20	ARHJ - 25 ***
ARHJ32 ***	9.0	46.5	6, 8, 10,.....25	ARHJ - 32 ***
ARHJ42 ***	9.0	59.5	6, 8, 10,.....32	ARHJ - 42 ***



ARH Coolant Straight Collets

Part No.	L3	ØD	ØD3
ARH20OH - ***	62	20	24.5
ARH25OH - ***	64	25	29.5
ARH32OH - ***	71	32	38
ARH42OH - ***	80	42	48

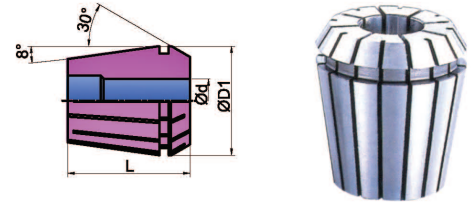
Tool shank (tolerance: h6)



Ød	L2 min. tool gripping length	Order No.			
		ARH20	ARH25	ARH32	ARH40
6	34	ARH-OH-20-060	ARH-OH-25-060	ARH-OH-32-060	ARH-OH-42-060
8	36	ARH-OH-20-080	ARH-OH-25-080	ARH-OH-32-080	ARH-OH-42-080
10	38	ARH-OH-20-100	ARH-OH-25-100	ARH-OH-32-100	ARH-OH-42-100
12	40	ARH-OH-20-120	ARH-OH-25-120	ARH-OH-32-120	ARH-OH-42-120
14	46	ARH-OH-20-140	ARH-OH-25-140	ARH-OH-32-140	ARH-OH-42-140
16	48	ARH-OH-20-160	ARH-OH-25-160	ARH-OH-32-160	ARH-OH-42-160
18	50		ARH-OH-25-180	ARH-OH-32-180	ARH-OH-42-180
20	52		ARH-OH-25-200	ARH-OH-32-200	ARH-OH-42-200
25	56			ARH-OH-32-250	ARH-OH-42-250
32	60				ARH-OH-42-320

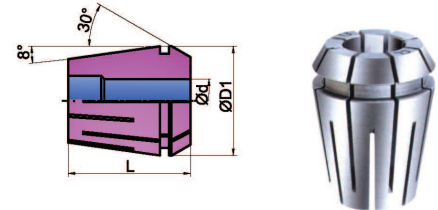
ER Spring Collets [DIN6499]

	Ø D Range	Ø D1	L	Stepped	Part No. Ø d
ER08 - X X X	Ø0.3 ~ Ø5.0	8.4	13.6	0.5	1, 1.5, 2, ... 5
ER11 - X X X	Ø0.5 ~ Ø7.0	11.5	18.6		1, 1.5, 2, ... 7
ER16 - X X X	Ø0.5 ~ Ø10.0	17.0	27.5	1.0	1, 1.5, 2, ... 10
ER20 - X X X	Ø1.0 ~ Ø13.0	21.0	31.5	1.0	1, 1.5, 2, ... 13
ER25 - X X X	Ø1.0 ~ Ø16.0	26.0	34.0		2, 3, 4, 5, ... 16
ER32 - X X X	Ø2.0 ~ Ø20.0	33.0	40.0		2, 3, 4, 5, ... 20
ER40 - X X X	Ø3.0 ~ Ø26.0	41.0	46.0		3, 4, 5, 6, ... 26
ER50 - X X X	Ø12.0 ~ Ø34.0	52.0	60.0		12, 14, 16, ... 34



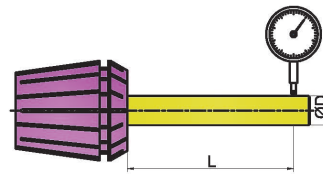
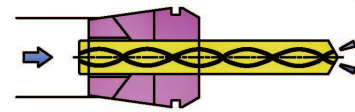
ER-OH Coolant Collets

	Ø D Range	Ø D1	L	Stepped	Part No. Ø d
ER16OH - X X X	Ø4.0 ~ Ø10.0	17.0	27.5	1.0	4, 5, 6, ... 10
ER20OH - X X X	Ø4.0 ~ Ø13.0	21.0	31.5		4, 5, 6, ... 13
ER25OH - X X X	Ø4.0 ~ Ø16.0	26.0	34.0		4, 5, 6, ... 16
ER32OH - X X X	Ø4.0 ~ Ø20.0	33.0	40.0		4, 5, 6, ... 20
ER40OH - X X X	Ø4.0 ~ Ø26.0	41.0	46.0		4, 5, 6, ... 26



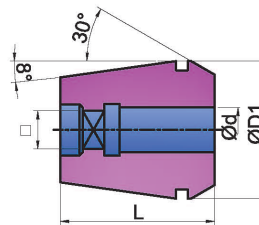
Accuracy of ER Spring Collets

Ø D Range	L	TIR S Grade	TIR A Grade	TIR AA Grade
Ø 1.0 ~ Ø 1.6	6	0.015	0.010	0.005
Ø 1.6 ~ Ø 3.0	10			
Ø 3.0 ~ Ø 6.0	16			
Ø 6.0 ~ Ø10.0	25			
Ø10.0 ~ Ø18.0	40	0.020	0.015	0.010
Ø18.0 ~ Ø26.0	50			
Ø26.0 ~ Ø34.0	60			



ER-GB Tap Collets [DIN6499]

	Ø D Range	Ø D1	L
ER16GB - X X X	ØM 4 ~ ØM10	16.6	27.0
ER20GB - X X X	ØM 4 ~ ØM12	20.6	31.0
ER25GB - X X X	ØM 4 ~ ØM16	25.6	35.0
ER32GB - X X X	ØM 4 ~ ØM20	32.6	40.0
ER40GB - X X X	ØM10 ~ ØM27	40.8	46.0



Tap Standard		Tap Shank		Order No.				
DIN	JIS	Ø D	□	ER16GB	ER20GB	ER25GB	ER32GB	ER40GB
M6		4.5	3.4	117GB160450	117GB200450	117GB250450	117GB320450	
	M4 # 8	5.0	4.0	117GB160500	117GB200500	117GB250500	117GB320500	
	M5 # 10	5.5	4.5	117GB160550	117GB200550	117GB250550	117GB320550	
	M6 1/4U	6.0		117GB160600	117GB200600	117GB250600	117GB320600	117GB400600
M8		6.0	4.9	117GB160601	117GB200601	117GB250601	117GB320601	117GB400601
	5/16U	6.1	5.0	117GB160610	117GB200610	117GB250610	117GB320610	117GB400610
	M8	6.2		117GB160620	117GB200620	117GB250620	117GB320620	117GB400620
M10	M10 3/8U	7.0	5.5	117GB160700	117GB200700	117GB250700	117GB320700	117GB400700
	7/16U	8.0	6.2	117GB160800	117GB200800	117GB250800	117GB320800	117GB400800
	M12	8.5	6.5		117GB200850	117GB250850	117GB320850	117GB400850
M12	1/2U	9.0	7.1		117GB200900	117GB250900	117GB320900	117GB400900
		10.0	8.0			117GB251000	117GB321000	117GB401000
	M14 9/16U	10.5				117GB251050	117GB321050	117GB401050
M14		11.0	9.0			117GB251100	117GB321100	117GB401100
M16	5/8U	12.0				117GB251200	117GB321200	117GB401200
	M16	12.5	10.0			117GB251250	117GB321250	117GB401250
M18	M18 3/4U	14.0	11.0				117GB321400	117GB401400
	M20	15.0	12.0				117GB321500	117GB401500
M20		16.0					117GB321600	117GB401600
	M22 7/8U	17.0	13.0				117GB321700	117GB401700
M22		18.0	14.5					117GB401800
	M24	19.0	15.0					117GB401900
	M27 1"U	20.5						117GB402000
M27		20.0	16.0					117GB402001
M30		22.0	18.0					117GB402200