

ALPS TOOL

Tooling for CNC Lathe

NICE MILL SERIES

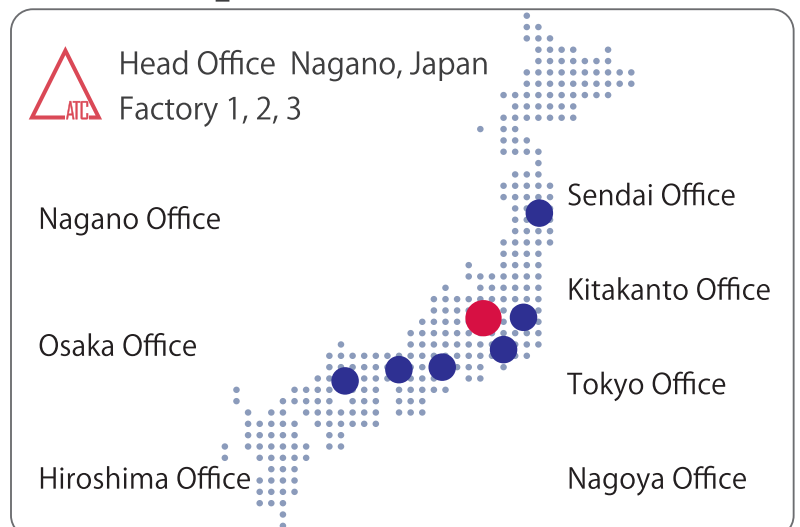
PRODUCT CATALOG



ALPS TOOL Global Network

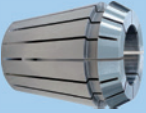
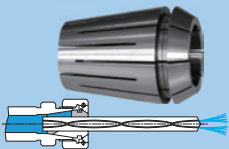
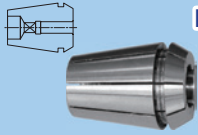
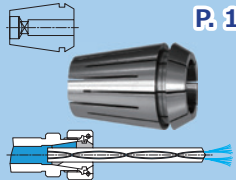


Japan



www.alpstool.com

Table of Contents

AR Collet Standard P. 8 	AR Coolant Thru OH type P. 10 	AR Coolant Thru C type P. 12 	AR Tap Collet GB type P. 14 	AR Coolant Tap Collet GH type P. 15 
Collet Holder P. 16 	Y axis Adjustable Holder P. 17 	Y-X Adjustable Holder P. 17 	Short Nose Collet Holder P. 18 - 21 	Two-Head Holder P. 22 
Collet Holder with Pipe Thread Rc 1/8 P. 23 	Tap Holder with Axial Float Single P. 24 	Tap Holder with Axial Float Double P. 24 	Tap Holder AES type with Micro Float P. 25 	Tap Holder ARF type with Radial Float P. 25 
Small Size Boring Bar Holder P. 26 	Tool Change Head P. 28 	Collet Holder without flattening P. 29 	Jacobs Taper Holder P. 30 	Die Holder P. 30 
AR Collet Arrange Stand P. 30 	Various series of Nuts P. 32 	Torque Spanner P. 33 	Various series of Wrench and spanner P. 34 	

What is the NICE MILL

ALPS TOOL's NICE MILL are products that provide total support for machine tooling, with compatibility for collet holders, AR collets, nuts, and other tooling.

for Turret lathe

with Flange



Nut



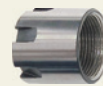
AR Collet



Collet Chuck Holder

for Swiss type

Short nose



Nut



AR Collet



Collet Chuck Holder



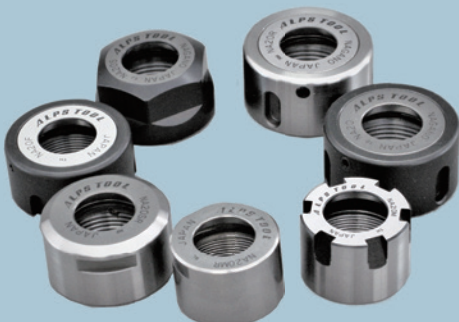
AR(ER) Collet

- ① Standard 16° taper collet in Europe and the United States. (DIN6499 / ISO15488 compliant)
- ② Various series sizes available in the range of ϕ 0.3 to ϕ 34
- ③ Stable quality collets are supplied by ISO9001 quality system.
- ④ Wide assortment of collets for standard, coolant through, tapping, etc.
- ⑤ Class AAA 3 μ m, Class AA 5 μ m, Class A 8 μ m, and meet strict inspection standards



Collet Chuck Holder for CNC Lathe

- ① For small automatic swiss type lathes to medium and large machines.
- ② Various lineup including center adjustment type, double-headed holder, tap holder with floating function, etc.
- ③ Nut for collet chuck included (come with) as standard.
- ④ Small boring holders are also available.
- ⑤ Please contact us for special sizes.

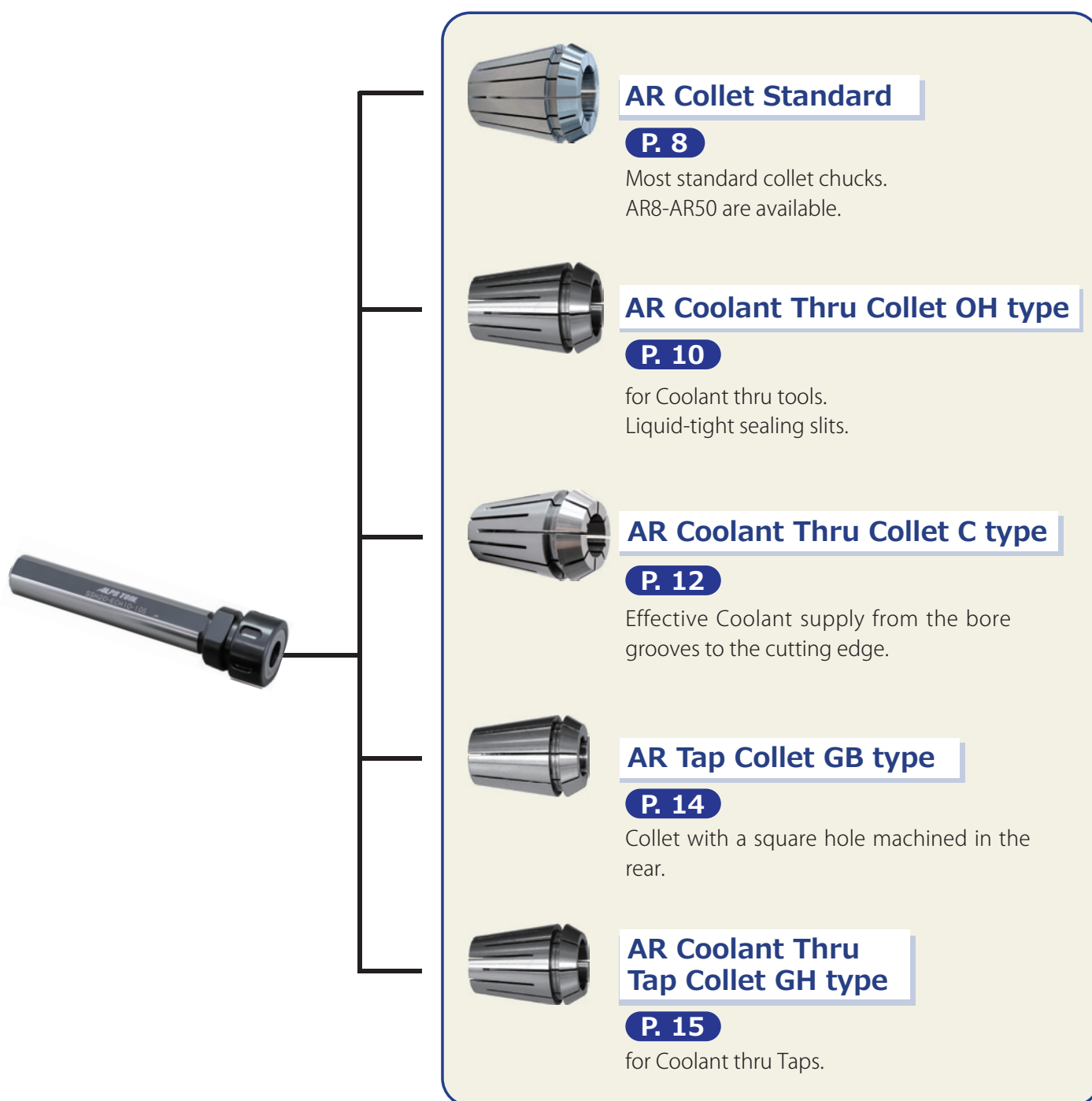


Nuts

- ① Bearing nuts suitable for medium and large machines.
- ② Hexagon head nuts and Mini nuts for small machines(like swiss type machine) .
- ③ Balanced design R-type nut, ideal for high-speed rotation of holders.
- ④ Feel free to contact us for other special shapes.

ER and AR is same specifications

5 types of AR (ER) Collet



Grade of AR (ER) Collet

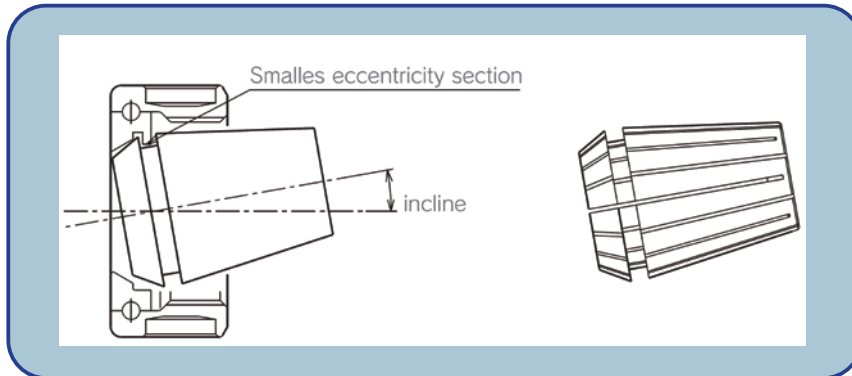
Class	Grade				
	AR	AR/OH	AR/C	AR/GB	AR/GH
AAA	○ *1	-	-	-	-
AA	○	○	○	-	-
A	○	○	○	-	-

*1 We don't manufacture AAA grade for AR8, AR40, AR50.

* Please refer to P7

How to Install AR Collet in NA Nut

Easy & Reliable put on/ take off the collet



The Collet can be attached and detached by hooking the groove of the collet onto the eccentric convex in the nut and tilting the collet.

*Note

- (1)First, please fit the collet into the nut and then, you can screw it into the body.
- (2)Please insert the cutting tool shank deeper than the rear face of the collet.

Features of AR Collet Chucks

- ER and AR is same specifications.
- Most standard 16 degree collet chucks. DIN6499 / ISO15488
- Various series sizes are available in the range of $\varnothing$ 0.3 to $\varnothing$ 34.

Gripping Range

- See Page 8-15 for details.
- Sizes larger than the product code diameter cannot be chucked.

Accuracy of Runout (TIR)

AR Collet

Size	d	L	Accuracy by grade (μm)		
			A	AA	AAA
AR 8	0.5 - 5	4 x d	8	5	-
AR11	1 - 7	4 x d	8	5	3
AR16	1 - 10	4 x d	8	5	3
AR20	1 - 13 (14)	4 x d	8	5	3
AR25	1 - 16	4 x d	8	5	3
AR32	2.5 - 20	4 x d	8	5	3
AR40	4 - 26	4 x d	8	5	-
AR50	6 - 10	25	8	5	-
	12 - 26	40			
	28 - 34	60	18	10	-

Class	Grade				
	AR	AR/OH	AR/C	AR/GB	AR/GH
AAA	○	-	-	-	-
AA	○	○	○	-	-
A	○	○	○	-	-

*AR8, AR40 and AR50 are not set to AAA standards.

*Tap Collet GB and GH are inspected according to separately established standards.

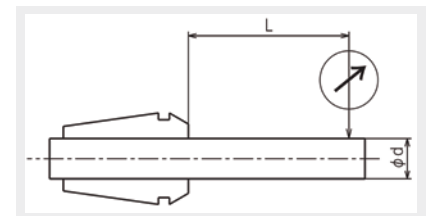
Please check it out
our YouTube Channel



● Accuracy by grade

AAA **3 μm**
 AA **5 μm**
 A **8 μm**

● Measurement position L = 4 x d



● Accuracy inspection

Three times for ALL



All AR (ER) collets are inspected.

We inspected **three times** at different phases for all Collets.

We only sale as a product that which pass strict inspection **three times**.

Our AR (ER) Collet has a highest quality and can be used by all customers because All Collets are overcome by strict inspection.

AR Collet

AR Collet Standard

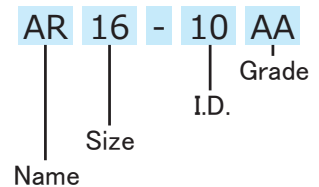
Standard type



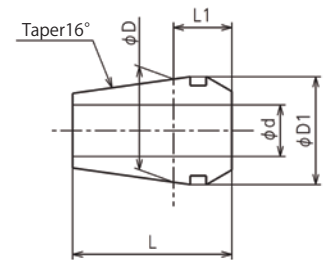
Grade

AAA	3 μ m
AA	5 μ m
A	8 μ m

Form explanation



- ER and AR is same specifications
- Most standard 16 degree collet chucks. DIN6499 / ISO15488
- More than 50 years of experience as a collet manufacture
- Adopted as standard by major lathe makers
- For tooling for Swiss Lathes or multi task livetooling



CODE	ϕ d		ϕ D	ϕ D1	L	L1	Holder	Please refer to P9
	Range	Shrink range						
AR 8	0.5 – 5	0.2 or 0.5	8	8.5	13.5	4.5	ECH 5S	Table 1
AR11	1 – 7	0.5	11	11.5	18	6.5	ECH 7	Table 2
AR16	1 – 10	0.5 or 1.0	16	17	27	10	ECH10	Table 3
AR20	1 – 13 (14)		20	21	31	11	ECH13	Table 4
AR25	1 – 16		25	26	35	11.5	ECH16	Table 5
AR32	2.5 – 20		32	33	40	12.5	ECH20	Table 6
AR40	4 – 26	1.0	40	41	46	14.5	ECH26	Table 7
AR50	6 – 34	1.0 or 2.0	50	52	60	21	ECH34	Table 8

■ Remarks

- (1) Can be used with smaller shanktool than d.
- (2) When ordering, please indicate the precision grade at the end of the CODE.
Ordering example: AR32-5 A grade (with NO "A")
AR32-5AA AA grade
AR32-5AAA AAA grade
Since grade A is the standard, there is no need to indicate the grade for Grade A.
AAA grade is available for AR11, 16, 20, 25, and 32.
AA grade is available for AR8, 11, 16, 20, 25, 32, 40, and 50.
- (3) The shape of AR8 collet chuck is partially different from the above drawing.
- (4) I.D. shape varies depending on ϕ d.
- (5) When using AR20-14, the tool cannot be inserted to the depth of the holder.

Standard type Dimensions of Standard type

Fig. 1

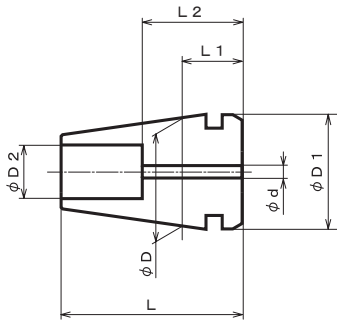


Fig. 2

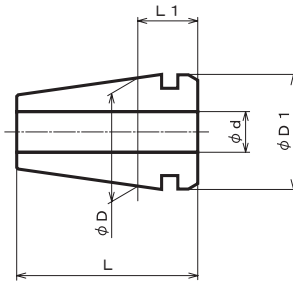


Fig. 3

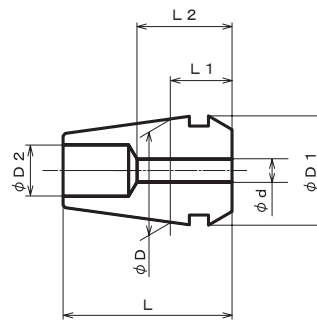


Fig. 4

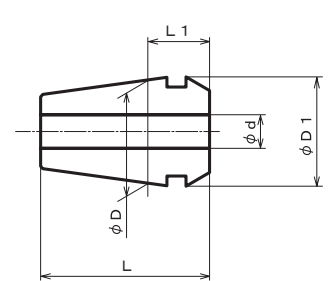


Table 1

AR 8				
L1=4.6, ϕ D=8, ϕ D1=8.5, L=13.5				
CODE	O.D. range	L2	ϕ D2	Fig.
AR8-0.5	0.5 - 0.3	7.5	4	1
AR8-1	1.0 - 0.5			
AR8-1.5	1.5 - 1.0			
AR8-2	2.0 - 1.5			
AR8-2.5	2.5 - 2.0			
AR8-3	3.0 - 2.5	-	-	2
AR8-3.5	3.5 - 3.0			
AR8-4	4.0 - 3.5			
AR8-4.5	4.5 - 4.0			
AR8-5	5.0 - 4.5			

Table 2

AR11				
L1=6.5, ϕ D=11, ϕ D1=11.5, L=18				
CODE	O.D. range	L2	ϕ D2	Fig.
AR11-1	1.0 - 0.5	10	5.5	3
AR11-1.5	1.5 - 1.0			
AR11-2	2.0 - 1.5			
AR11-2.5	2.5 - 2.0			
AR11-3	3.0 - 2.5			
AR11-3.175	3.175	-	-	4
AR11-3.5	3.5 - 3.0			
AR11-4	4.0 - 3.5			
AR11-4.5	4.5 - 4.0			
AR11-5	5.0 - 4.5			
AR11-5.5	5.5 - 5.0	-	-	4
AR11-6	6.0 - 5.5			
AR11-6.5	6.5 - 6.0			
AR11-7	7.0 - 6.5			

Table 3

AR16				
L1=10, ϕ D=16, ϕ D1=17, L=27				
CODE	O.D. range	L2	ϕ D2	Fig.
AR16-1	1.0 - 0.5	16	7.5	3
AR16-1.5	1.5 - 1.0			
AR16-2	2.0 - 1.5			
AR16-2.5	2.5 - 2.0			
AR16-3	3.0 - 2.5			
AR16-3.175	3.175	17	7.5	3
AR16-3.5	3.5 - 3.0			
AR16-4	4.0 - 3.5			
AR16-4.5	4.5 - 4.0			
AR16-5	5.0 - 4.5			
AR16-6	6.0 - 5.0	-	-	4
AR16-7	7.0 - 6.0			
AR16-8	8.0 - 7.0			
AR16-9	9.0 - 8.0			
AR16-10	10.0 - 9.0			

Table 4

AR20				
L1=11, ϕ D=20, ϕ D1=21, L=31				
CODE	O.D. range	L2	ϕ D2	Fig.
AR20-1	1.0 - 0.5	13	10	3
AR20-1.5	1.5 - 1.0	14		
AR20-2	2.0 - 1.5	18		
AR20-2.5	2.5 - 2.0	19		
AR20-3	3.0 - 2.5	20		
AR20-3.175	3.175	20	-	4
AR20-3.5	3.5 - 3.0			
AR20-4	4.0 - 3.5			
AR20-4.5	4.5 - 4.0			
AR20-5	5.0 - 4.5			
AR20-6	6.0 - 5.0	-	-	4
AR20-7	7.0 - 6.0			
AR20-8	8.0 - 7.0			
AR20-9	9.0 - 8.0			
AR20-10	10.0 - 9.0			
AR20-11	11.0 - 10.0	-	-	4
AR20-12	12.0 - 11.0			
AR20-13	13.0 - 12.0			
AR20-14 *	14.0 - 13.0			

*You can't insert deep inside with AR20-14 because I.D. of collet holders is smaller than 14mm.

Table 5

AR25				
L1=11.5, ϕ D=25, ϕ D1=26, L=35				
CODE	O.D. range	L2	ϕ D2	Fig.
AR25-1	1.0 - 0.5	14	13	3
AR25-1.5	1.5 - 1.0			
AR25-2	2.0 - 1.5			
AR25-2.5	2.5 - 2.0			
AR25-3	3.0 - 2.5			
AR25-3.5	3.5 - 3.0	21	27	4
AR25-4	4.0 - 3.5			
AR25-4.5	4.5 - 4.0			
AR25-5	5.0 - 4.5			
AR25-6	6.0 - 5.0			
AR25-7	7.0 - 6.0	23	-	-
AR25-8	8.0 - 7.0			
AR25-9	9.0 - 8.0			
AR25-10	10.0 - 9.0			
AR25-11	11.0 - 10.0			
AR25-12	12.0 - 11.0	-	-	4
AR25-13	13.0 - 12.0			
AR25-14	14.0 - 13.0			
AR25-15	15.0 - 14.0			
AR25-16	16.0 - 15.0			

Table 6

AR32				
L1=12.5, ϕ D=32, ϕ D1=33, L=40				
CODE	O.D. range	L2	ϕ D2	Fig.
AR32-2.5	2.5 - 2.0	21	16	3
AR32-3	3.0 - 2.5			
AR32-3.5	3.5 - 3.0			
AR32-4	4.0 - 3.5			
AR32-4.5	4.5 - 4.0			
AR32-5	5.0 - 4.5	22	24	4
AR32-6	6.0 - 5.0			
AR32-7	7.0 - 6.0			
AR32-8	8.0 - 7.0			
AR32-9	9.0 - 8.0			
AR32-10	10.0 - 9.0	24	-	-
AR32-11	11.0 - 10.0			
AR32-12	12.0 - 11.0			
AR32-13	13.0 - 12.0			
AR32-14	14.0 - 13.0			
AR32-15	15.0 - 14.0	-	-	4
AR32-16	16.0 - 15.0			
AR32-17	17.0 - 16.0			
AR32-18	18.0 - 17.0			
AR32-19	19.0 - 18.0			
AR32-20	20.0 - 19.0	-	-	4

Table 7

AR40				
L1=14.5, ϕ D=40, ϕ D1=41, L=46				
CODE	O.D. range	L2	ϕ D2	Fig.
AR40-4	4.0 - 3.5	26	20	3
AR40-4.5	4.5 - 4.0	27		
AR40-5	5.0 - 4.5	28		
AR40-6	6.0 - 5.0	30		
AR40-7	7.0 - 6.0	-	-	4
AR40-8	8.0 - 7.0			
AR40-9	9.0 - 8.0			
AR40-10	10.0 - 9.0			
AR40-11	11.0 - 10.0			
AR40-12	12.0 - 11.0	-	-	4
AR40-13	13.0 - 12.0			
AR40-14	14.0 - 13.0			
AR40-15	15.0 - 14.0			
AR40-16	16.0 - 15.0			
AR40-17	17.0 - 16.0	-	-	4
AR40-18	18.0 - 17.0			
AR40-19	19.0 - 18.0			
AR40-20	20.0 - 19.0			
AR40-21	21.0 - 20.0			
AR40-22	22.0 - 21.0	-	-	4
AR40-23	23.0 - 22.0			
AR40-24	24.0 - 23.0			
AR40-25	25.0 - 24.0			
AR40-26	26.0 - 25.0			

Table 8

AR50				
L1=21, ϕ D=50, ϕ D1=52, L=60				
CODE	O.D. range	L2	ϕ D2	Fig.
AR50-6	6.0 - 5.0	27	27	3
AR50-7	7.0 - 6.0			
AR50-8	8.0 - 7.0			
AR50-9	9.0 - 8.0			
AR50-10	10.0 - 9.0			
AR50-12	12.0 - 10.0	42	45	4
AR50-14	14.0 - 12.0			
AR50-16	16.0 - 14.0			
AR50-18	18.0 - 16.0			
AR50-20	20.0 - 18.0			
AR50-22	22.0 - 20.0	46	-	-
AR50-24	24.0 - 22.0			
AR50-25	25.0 - 24.0			
AR50-26	26.0 - 25.0			
AR50-28	28.0 - 26.0			
AR50-30	30.0 - 28.0	-	-	4
AR50-32	32.0 - 30.0			
AR50-34	34.0 - 32.0			

AR Collet

Coolant Thru OH type

OH type

Coolant Thru

20MPa Available



Grade

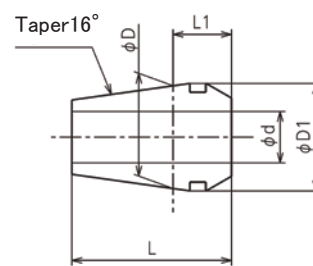
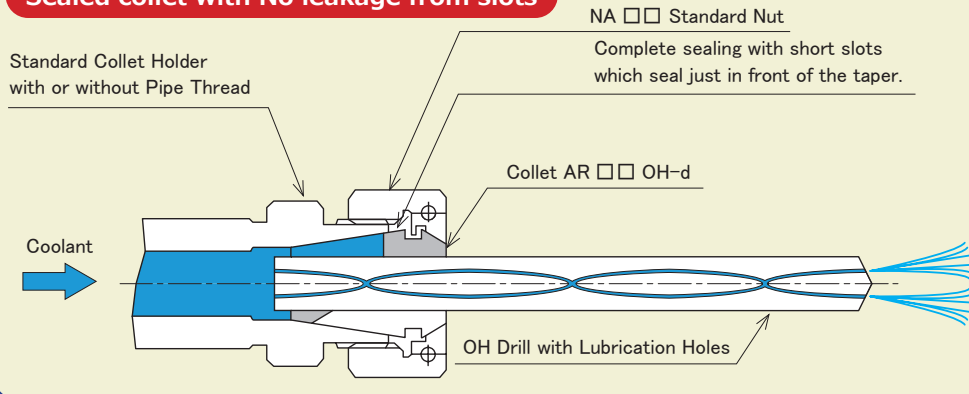
AA 5 μ m

A 8 μ m

Form explanation

AR 16 OH - 10 AA
 Name Size Type I.D. Grade

Sealed collet with No leakage from slots



CODE	ϕd		ϕD	$\phi D1$	L	L1	Please refer to P11
	Range	Shrink range					
AR11 OH	2 — 7	0.1	11	11.5	18	6.5	Table 1
AR16 OH	2 — 5.9		16	17	27	10	Table 2
	6 — 10	0.5					
AR20 OH	3 — 5.9	0.1	20	21	31	11	Table 3
	6 — 13	0.5					
AR25 OH	3 — 5.9	0.1	25	26	35	11.5	Table 4
	6 — 16	0.5					
AR32 OH	3 — 7.9	0.1	32	33	40	12.5	Table 5
	8 — 12	0.5					
AR40 OH	10 — 26		40	41	46	14.5	Table 6
AR50 OH	16 — 34		50	52	60	21	Table 7

Remarks

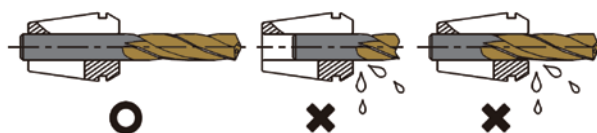
- (1) Other nominal dimensions are made-to-order, and only the specified size can be used. Minimum order of 3 pieces per size.
- (2) for oil hole (OH) drills.
- (3) When using, insert the drill deeper than the collet end face.
- (4) The inside diameter shape differs depending on ϕd .
- (5) If a collet of a size other than the nominal diameter is gripped, coolant may seep out or a small amount of leakage may occur.
- (6) The sealing function of the collet does not work when a straight shank with a flattened edge is used.
- (7) AR50OH is made to order.

Ordering example:

AR16OH-5 A grade (with NO "A")

AR16OH-5AA AA grade

◆ The correct way to use OH type collet ◆



OH type

Dimensions of OH type

Fig. 5

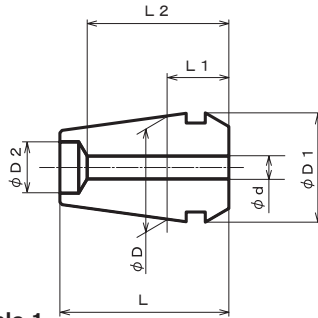


Fig. 6

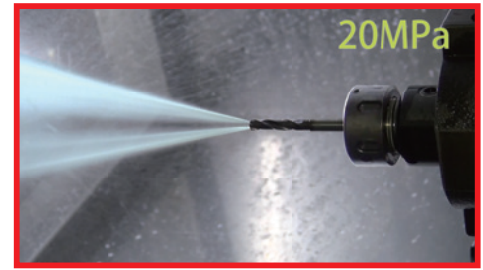
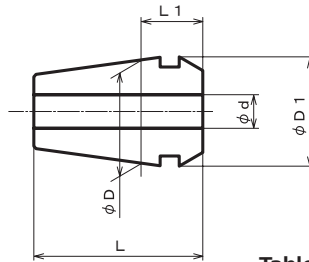


Table 1

AR11 OH				
L1=6.5, ϕ D=11, ϕ D1=11.5, L=18				
CODE	O.D. range	L2	ϕ D2	Fig.
AR11OH-2	2.0 - 1.9	-	-	6
AR11OH-2.5	2.5 - 2.4			
AR11OH-3	3.0 - 2.9			
AR11OH-3.5	3.5 - 3.4			
AR11OH-4	4.0 - 3.9			
AR11OH-4.5	4.5 - 4.4			
AR11OH-5	5.0 - 4.9			
AR11OH-5.5	5.5 - 5.4			
AR11OH-6	6.0 - 5.9			
AR11OH-6.5	6.5 - 6.4			
AR11OH-7	7.0 - 6.9			

Table 2

AR16 OH				
L1=10, ϕ D=16, ϕ D1=17, L=27				
CODE	O.D. range	L2	ϕ D2	Fig.
AR16OH-2	2.0 - 1.9	-	-	6
AR16OH-2.5	2.5 - 2.4			
AR16OH-3	3.0 - 2.9			
AR16OH-3.5	3.5 - 3.4			
AR16OH-4	4.0 - 3.9			
AR16OH-4.5	4.5 - 4.4			
AR16OH-5	5.0 - 4.9			
AR16OH-5.5	5.5 - 5.4			
AR16OH-6	6.0 - 5.5			
AR16OH-6.5	6.5 - 6.0			
AR16OH-7	7.0 - 6.5			
AR16OH-7.5	7.5 - 7.0			
AR16OH-8	8.0 - 7.5			
AR16OH-8.5	8.5 - 8.0			
AR16OH-9	9.0 - 8.5			
AR16OH-9.5	9.5 - 9.0			
AR16OH-10	10.0 - 9.5			

Table 3

AR20 OH				
L1=11, ϕ D=20, ϕ D1=21, L=31				
CODE	O.D. range	L2	ϕ D2	Fig.
AR20OH-3	3.0 - 2.9	24	10	5
AR20OH-3.5	3.5 - 3.4			
AR20OH-4	4.0 - 3.9			
AR20OH-4.5	4.5 - 4.4			
AR20OH-5	5.0 - 4.9			
AR20OH-5.5	5.5 - 5.4			
AR20OH-6	6.0 - 5.5			
AR20OH-6.5	6.5 - 6.0			
AR20OH-7	7.0 - 6.5			
AR20OH-7.5	7.5 - 7.0			
AR20OH-8	8.0 - 7.5	25	10	5
AR20OH-8.5	8.5 - 8.0			
AR20OH-9	9.0 - 8.5			
AR20OH-9.5	9.5 - 9.0			
AR20OH-10	10.0 - 9.5			
AR20OH-10.5	10.5 - 10.0			
AR20OH-11	11.0 - 10.5			
AR20OH-11.5	11.5 - 11.0			
AR20OH-12	12.0 - 11.5			
AR20OH-12.5	12.5 - 12.0			
AR20OH-13	13.0 - 12.5			

Please check it out
our YouTube Channel



YouTube

Table 4

AR25 OH				
L1=11.5, ϕ D=25, ϕ D1=26, L=35				
CODE	O.D. range	L2	ϕ D2	Fig.
AR25OH-3	3.0 - 2.9	23	13	5
AR25OH-3.5	3.5 - 3.4			
AR25OH-4	4.0 - 3.9			
AR25OH-4.5	4.5 - 4.4			
AR25OH-5	5.0 - 4.9			
AR25OH-5.5	5.5 - 5.4			
AR25OH-6	6.0 - 5.5			
AR25OH-6.5	6.5 - 6.0			
AR25OH-7	7.0 - 6.5			
AR25OH-7.5	7.5 - 7.0			
AR25OH-8	8.0 - 7.5	29	13	5
AR25OH-8.5	8.5 - 8.0			
AR25OH-9	9.0 - 8.5			
AR25OH-9.5	9.5 - 9.0			
AR25OH-10	10.0 - 9.5			
AR25OH-10.5	10.5 - 10.0			
AR25OH-11	11.0 - 10.5			
AR25OH-11.5	11.5 - 11.0			
AR25OH-12	12.0 - 11.5			
AR25OH-12.5	12.5 - 12.0			
AR25OH-13	13.0 - 12.5	-	-	6
AR25OH-13.5	13.5 - 13.0			
AR25OH-14	14.0 - 13.5			
AR25OH-14.5	14.5 - 14.0			
AR25OH-15	15.0 - 14.5			
AR25OH-15.5	15.5 - 15.0			
AR25OH-16	16.0 - 15.5			

Table 5

AR32 OH				
L1=12.5, ϕ D=32, ϕ D1=33, L=40				
CODE	O.D. range	L2	ϕ D2	Fig.
AR32OH-3	3.0 - 2.9	26	16	5
AR32OH-3.5	3.5 - 3.4			
AR32OH-4	4.0 - 3.9			
AR32OH-4.5	4.5 - 4.4			
AR32OH-5	5.0 - 4.9			
AR32OH-5.5	5.5 - 5.4			
AR32OH-6	6.0 - 5.9			
AR32OH-6.5	6.5 - 6.4			
AR32OH-7	7.0 - 6.9			
AR32OH-7.5	7.5 - 7.4			
AR32OH-8	8.0 - 7.5	31	16	5
AR32OH-8.5	8.5 - 8.0			
AR32OH-9	9.0 - 8.5			
AR32OH-9.5	9.5 - 9.0			
AR32OH-10	10.0 - 9.5			
AR32OH-10.5	10.5 - 10.0			
AR32OH-11	11.0 - 10.5			
AR32OH-11.5	11.5 - 11.0			
AR32OH-12	12.0 - 11.5			
AR32OH-12.5	12.5 - 12.0			
AR32OH-13	13.0 - 12.5	32	16	5
AR32OH-13.5	13.5 - 13.0			
AR32OH-14	14.0 - 13.5			
AR32OH-14.5	14.5 - 14.0			
AR32OH-15	15.0 - 14.5			
AR32OH-15.5	15.5 - 15.0			
AR32OH-16	16.0 - 15.5			
AR32OH-16.5	16.5 - 16.0			
AR32OH-17	17.0 - 16.5			
AR32OH-17.5	17.5 - 17.0			
AR32OH-18	18.0 - 17.5	-	-	6
AR32OH-18.5	18.5 - 18.0			
AR32OH-19	19.0 - 18.5			
AR32OH-19.5	19.5 - 19.0			
AR32OH-20	20.0 - 19.5			

Table 6

AR40 OH				
L1=14.5, ϕ D=40, ϕ D1=41, L=46				
CODE	O.D. range	L2	ϕ D2	Fig.
AR40OH-10	10.0 - 9.5	36	16	5
AR40OH-10.5	10.5 - 10.0			
AR40OH-11	11.0 - 10.5			
AR40OH-11.5	11.5 - 11.0			
AR40OH-12	12.0 - 11.5			
AR40OH-12.5	12.5 - 12.0			
AR40OH-13	13.0 - 12.5			
AR40OH-13.5	13.5 - 13.0			
AR40OH-14	14.0 - 13.5			
AR40OH-14.5	14.5 - 14.0			
AR40OH-15	15.0 - 14.5	38	16	5
AR40OH-15.5	15.5 - 15.0			
AR40OH-16	16.0 - 15.5			
AR40OH-16.5	16.5 - 16.0			
AR40OH-17	17.0 - 16.5			
AR40OH-17.5	17.5 - 17.0			
AR40OH-18	18.0 - 17.5			
AR40OH-18.5	18.5 - 18.0			
AR40OH-19	19.0 - 18.5			
AR40OH-19.5	19.5 - 19.0			
AR40OH-20	20.0 - 19.5	-	-	6
AR40OH-20.5	20.5 - 20.0			
AR40OH-21	21.0 - 20.5			
AR40OH-21.5	21.5 - 21.0			
AR40OH-22	22.0 - 21.5			
AR40OH-22.5	22.5 - 22.0			
AR40OH-23	23.0 - 22.5			
AR40OH-23.5	23.5 - 23.0			
AR40OH-24	24.0 - 23.5			
AR40OH-24.5	24.5 - 24.0			
AR40OH-25	25.0 - 24.5			
AR40OH-25.5	25.5 - 25.0			
AR40OH-26	26.0 - 25.5			

Table 7

AR50 OH				
L1=21, ϕ D=50, ϕ D1=52,			L=60	
CODE	O.D. range	L2	ϕ D2	Fig.
AR50OH-16	16.0 – 15.5	49	27	5
AR50OH-16.5	16.5 – 16.0			
AR50OH-17	17.0 – 16.5			
AR50OH-17.5	17.5 – 17.0			
AR50OH-18	18.0 – 17.5			
AR50OH-18.5	18.5 – 18.0	50		
AR50OH-19	19.0 – 18.5			
AR50OH-19.5	19.5 – 19.0			
AR50OH-20	20.0 – 19.5			
AR50OH-20.5	20.5 – 20.0			
AR50OH-21	21.0 – 20.5	51		
AR50OH-21.5	21.5 – 21.0			
AR50OH-22	22.0 – 21.5			
AR50OH-22.5	22.5 – 22.0			
AR50OH-23	23.0 – 22.5			
AR50OH-23.5	23.5 – 23.0	-	-	6
AR50OH-24	24.0 – 23.5			
AR50OH-24.5	24.5 – 24.0			
AR50OH-25	25.0 – 24.5			
AR50OH-25.5	25.5 – 25.0			
AR50OH-26	26.0 – 25.5			
AR50OH-26.5	26.5 – 26.0			
AR50OH-27	27.0 – 26.5			
AR50OH-27.5	27.5 – 27.0			
AR50OH-28	28.0 – 27.5			
AR50OH-28.5	28.5 – 28.0			
AR50OH-29	29.0 – 28.5			
AR50OH-29.5	29.5 – 29.0			
AR50OH-30	30.0 – 29.5			
AR50OH-30.5	30.5 – 30.0			
AR50OH-31	31.0 – 30.5			
AR50OH-31.5	31.5 – 31.0			
AR50OH-32	32.0 – 31.5			
AR50OH-32.5	32.5 – 32.0			
AR50OH-33	33.0 – 32.5			
AR50OH-33.5	33.5 – 33.0			
AR50OH-34	34.0 – 33.5			

AR Collet

Coolant Thru C type

C type

Coolant Thru

20MPa Available



Grade

AA 5μm

A 8μm

Form explanation

AR 16 C - 10 AA
Name Size Type I.D. Grade

Grooves are machined in the I.D. of collet

Standard Collet Holder and/or
Standard Nut Collet Holder with
OH Supplying Hole

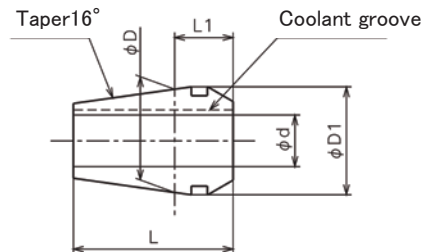
NA□□ Standard Nut

AR/C Coolant Collet
AR□□C-d

Coolant is sprayed toward
the cutting edge.

Coolant

Drill w/o Coolant Hole



CODE	φ d		φ D	φ D1	L	L1	Please refer to P13
	Range	Shrink range					
AR11C	3 - 7	0.1	11	11.5	18	6.5	Table 1
AR16C	3 - 5.9		16	17	27	10	Table 2
	6 - 10	0.5					
AR20C	5 - 5.9	0.5	20	21	31	11	Table 3
	6 - 13						
AR25C	6 - 16		25	26	35	11.5	Table 4
AR32C	8 - 20		32	33	40	12.5	Table 5

- AR/C collets are made to order.
- Correspond for high-pressure coolant sealing can be done by high-pressure of 20MPa except for the coolant groove.
- Coolant is sprayed toward the cutting edge, making it easy to reduce chip clogging.
- Effective for deep drilling of small diameter hole.
- For water-soluble or oil coolant available.

■ Remarks

(1) Ordering example:

AR16C-6 . . . Water-soluble coolant for φ 6, grade A

AR16CY-6AA . . . Oil-based coolant, for φ 6, grade AA

(2) Drill should be inserted deeper the depth of the collet.

(3) When gripping a collet of a size other than the diameter, coolant may seep out or a small amount of coolant may leak.

(4) The sealing of the collet does not work when using a straight shank with flattening.

(5) The inside diameter shape varies depending on φ d.

C type

Dimensions of C type

Fig. 5

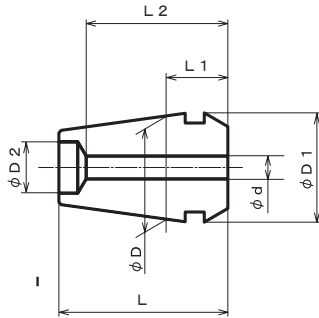


Fig. 6

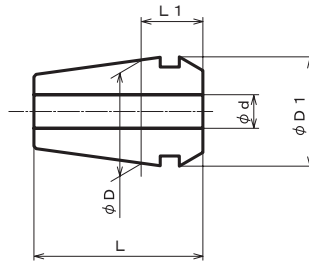


Table 1

AR11C

 L1=6.5, ϕ D=11, ϕ D1=11.5, L=18

CODE	O.D. range	L2	ϕ D2	Fig.
AR11C-3	3.0 - 2.9	-	-	6
AR11C-3.5	3.5 - 3.4			
AR11C-4	4.0 - 3.9			
AR11C-4.5	4.5 - 4.4			
AR11C-5	5.0 - 4.9			
AR11C-5.5	5.5 - 5.4			
AR11C-6	6.0 - 5.9			
AR11C-6.5	6.5 - 6.4			
AR11C-7	7.0 - 6.9			

Table 2

AR16C

 L1=10, ϕ D=16, ϕ D1=17, L=27

CODE	O.D. range	L2	ϕ D2	Fig.
AR16C-3	3.0 - 2.9	-	-	6
AR16C-3.5	3.5 - 3.4			
AR16C-4	4.0 - 3.9			
AR16C-4.5	4.5 - 4.4			
AR16C-5	5.0 - 4.9			
AR16C-5.5	5.5 - 5.4			
AR16C-6	6.0 - 5.5			
AR16C-6.5	6.5 - 6.0			
AR16C-7	7.0 - 6.5			
AR16C-7.5	7.5 - 7.0			
AR16C-8	8.0 - 7.5			
AR16C-8.5	8.5 - 8.0			
AR16C-9	9.0 - 8.5			
AR16C-9.5	9.5 - 9.0			
AR16C-10.0	10.0 - 9.5			

Table 3

AR20C

 L1=11, ϕ D=20, ϕ D1=21, L=31

CODE	O.D. range	L2	ϕ D2	Fig.
AR20C-5	5.0 - 4.9	25	10	5
AR20C-5.5	5.5 - 5.4			
AR20C-6	6.0 - 5.5			
AR20C-6.5	6.5 - 6.0			
AR20C-7	7.0 - 6.5	-	-	6
AR20C-7.5	7.5 - 7.0			
AR20C-8	8.0 - 7.5			
AR20C-8.5	8.5 - 8.0			
AR20C-9	9.0 - 8.5			
AR20C-9.5	9.5 - 9.0			
AR20C-10	10.0 - 9.5			
AR20C-10.5	10.5 - 10.0			
AR20C-11	11.0 - 10.5			
AR20C-11.5	11.5 - 11.0			
AR20C-12	12.0 - 11.5			
AR20C-12.5	12.5 - 12.0			
AR20C-13	13.0 - 12.5			

Table 4

AR25C

 L1=11.5, ϕ D=25, ϕ D1=26, L=35

CODE	O.D. range	L2	ϕ D2	Fig.
AR25C-6	6.0 - 5.5	28	13	5
AR25C-6.5	6.5 - 6.0			
AR25C-7	7.0 - 6.5			
AR25C-7.5	7.5 - 7.0			
AR25C-8	8.0 - 7.5	29	13	5
AR25C-8.5	8.5 - 8.0			
AR25C-9	9.0 - 8.5			
AR25C-9.5	9.5 - 9.0			
AR25C-10	10.0 - 9.5	-	-	6
AR25C-10.5	10.5 - 10.0			
AR25C-11	11.0 - 10.5			
AR25C-11.5	11.5 - 11.0			
AR25C-12	12.0 - 11.5			
AR25C-12.5	12.5 - 12.0			
AR25C-13	13.0 - 12.5			
AR25C-13.5	13.5 - 13.0			
AR25C-14	14.0 - 13.5	-	-	6
AR25C-14.5	14.5 - 14.0			
AR25C-15	15.0 - 14.5			
AR25C-15.5	15.5 - 15.0			
AR25C-16	16.0 - 15.5			

Table 5

AR32C

 L1=12.5, ϕ D=32, ϕ D1=33, L=40

CODE	O.D. range	L2	ϕ D2	Fig.
AR32C-8	8.0 - 7.5	31	16	5
AR32C-8.5	8.5 - 8.0			
AR32C-9	9.0 - 8.5			
AR32C-9.5	9.5 - 9.0			
AR32C-10	10.0 - 9.5	32	16	5
AR32C-10.5	10.5 - 10.0			
AR32C-11	11.0 - 10.5			
AR32C-11.5	11.5 - 11.0			
AR32C-12	12.0 - 11.5	33	16	5
AR32C-12.5	12.5 - 12.0			
AR32C-13	13.0 - 12.5			
AR32C-13.5	13.5 - 13.0			
AR32C-14	14.0 - 13.5	-	-	6
AR32C-14.5	14.5 - 14.0			
AR32C-15	15.0 - 14.5			
AR32C-15.5	15.5 - 15.0			
AR32C-16	16.0 - 15.5	-	-	6
AR32C-16.5	16.5 - 16.0			
AR32C-17	17.0 - 16.5			
AR32C-17.5	17.5 - 17.0			
AR32C-18	18.0 - 17.5	-	-	6
AR32C-18.5	18.5 - 18.0			
AR32C-19	19.0 - 18.5			
AR32C-19.5	19.5 - 19.0			
AR32C-20	20.0 - 19.5			

Please check it out our YouTube



AR Collet

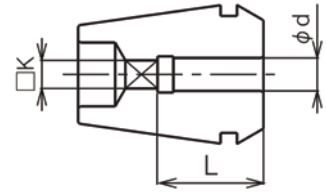
Tap Collet GB type

for JIS

GB type


Form explanation

AR 16 GB - M4
 Name Size Type Thread size



AR16GB						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR16GB-M4	M4	(No8U)	-	5	4	15
AR16GB-M5	M5	(No10U/12U)		5.5	4.5	
AR16GB-M6	M6	(1/4U)		6		
AR16GB-5/16U	-	5/16U		6.1	5	20
AR16GB-M8	M8	-		6.2		
AR16GB-M10	M10	(3/8U)		7	5.5	
AR16GB-7/16U	(M11)	7/16U		8	6	
AR16GB-PT1/8	-	-	PT1/8(1/16)	8.5	6.5	
AR16GB-M12	M12	-	-			

AR20GB						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR20GB-M4	M4	(No8U)	-	5	4.0	15
AR20GB-M5	M5	(No10U/12U)		5.5	4.5	
AR20GB-M6	M6	(1/4U)		6	4.5	
AR20GB-5/16U	-	5/16U		6.1	5	20
AR20GB-M8	M8	-		6.2		
AR20GB-M10	M10	(3/8U)	PT1/8(1/16)	7	5.5	21
AR20GB-7/16U	(M11)	7/16U		8	6	
AR20GB-PT1/8	-	-		8.5	6.5	20
AR20GB-M12	M12	-				
AR20GB-1/2U	-	1/2U	-	9	7	21

AR25GB						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR25GB-M4	M4	(No8U)	-	5	4	15
AR25GB-M5	M5	(No10U/12U)		5.5	4.5	
AR25GB-M6	M6	(1/4U)		6	4.5	
AR25GB-5/16U	-	5/16U		6.1	5	20
AR25GB-M8	M8	-		6.2		
AR25GB-M10	M10	(3/8U)	PT1/8(1/16)	7	5.5	25
AR25GB-7/16U	(M11)	7/16U		8	6	
AR25GB-PT1/8	-	-		8.5	6.5	20
AR25GB-M12	M12	-				
AR25GB-1/2U	-	1/2U	-	9	7	25
AR25GB-M14	M14	(9/16U)	-	10.5	8	
AR25GB-PT1/4	-	-	PT1/4	11	9	17
AR25GB-5/8U	-	5/8U	-	12		
AR25GB-M16	M16	-	-	12.5	10	25
AR25GB-PT3/8	-	-	PT3/8	14	11	

AR32GB						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR32GB-M4	M4	(No8U)	-	5	4	15
AR32GB-M5	M5	(No10U/12U)		5.5	4.5	
AR32GB-M6	M6	(1/4U)		6	4.5	
AR32GB-5/16U	-	5/16U		6.1	5	20
AR32GB-M8	M8	-		6.2		
AR32GB-M10	M10	(3/8U)	PT1/8(1/16)	7	5.5	25
AR32GB-7/16U	(M11)	7/16U		8	6	
AR32GB-PT1/8	-	-		8.5	6.5	20
AR32GB-M12	M12	-				
AR32GB-1/2U	-	1/2U	-	9	7	25
AR32GB-M14	M14	(9/16U)	-	10.5	8	
AR32GB-PT1/4	-	-	PT1/4	11	9	17
AR32GB-5/8U	-	5/8U	-	12		
AR32GB-M16	M16	-	-	12.5	10	25
AR32GB-PT3/8	-	-	PT3/8	14	11	
AR32GB-M18	M18	(3/4U)	-	15	12	28
AR32GB-M20	M20	-		17	13	
AR32GB-M22	M22	-				

AR40GB						
CODE	Tap Size			d	K	L
	Metric thread	Unifed screw thread	Pipe thread			
AR40GB-M10	M10	(3/8U)	-	7	5.5	25
AR40GB-7/16U	(M11)	7/16U		8	6	
AR40GB-PT1/8	-	-	PT1/8(1/16)	8.5	6.5	20
AR40GB-M12	M12			25		
AR40GB-1/2U	-	1/2U	-	9	7	25
AR40GB-M14	M14	(9/16U)		10.5	8	
AR40GB-PT1/4	-	-	PT1/4	11	9	17
AR40GB-5/8U	-	5/8U	-	12		
AR40GB-M16	M16	-	-	12.5	10	25
AR40GB-PT3/8	-			PT3/8	14	
AR40GB-M18	M18	(3/4U)	-	15	12	28
AR40GB-M20	M20	-		17	13	
AR40GB-M22	M22	(7/8U)		18	14	
AR40GB-PT1/2	-	-	PT1/2	19	15	21
AR40GB-M24	M24		20			
AR40GB-M27	M27	(1U)	-	20		31

AR50GB						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR50GB-M10	M10	(3/8U)	—	7	5.5	25
AR50GB-7/16U	(M11)	7/16U		8	6	
AR50GB-PT1/8	—	—	PT1/8(1/16)	8.5	6.5	20
AR50GB-M12	M12			—	9	7
AR50GB-1/2U	—	1/2U	—	10.5	8	
AR50GB-M14	M14	(9/16U)				
AR50GB-PT1/4	—	—	PT1/4	11	9	17
AR50GB-5/8U		5/8U	—	12		25
AR50GB-M16	M16	—		12.5	10	
AR50GB-PT3/8	—		PT3/8	14	11	18
AR50GB-M18	M18	(3/4U)	—			15
AR50GB-M20	M20	—				
AR50GB-M22	M22	(7/8U)		17	13	
AR50GB-PT1/2	—	—	PT1/2	18	14	21
AR50GB-M24	M24				19	15
AR50GB-M27	M27	(1U)	—	20		
AR50GB-M28	M28	—		21	17	

AR Collet

Tap Collet GH type

for JIS

GH type

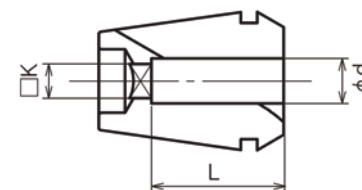
Coolant Thru

20MPa Available



Form explanation

AR 16 GH - M5
 Name Size Type Thread size



AR16GH						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR16GH-M5	M5	—	—	5.5	4.5	22
AR16GH-M6	M6	(1/4U)		6	4.5	
AR16GH-5/16U	—	5/16U		6.1	5	
AR16GH-M8	M8	—		6.2	5	
AR16GH-M10	M10	(3/8U)		7	5.5	
AR16GH-7/16U	(M11)	7/16U		8	6	
AR16GH-PT1/8	—	—	PT1/8(1/16)	8	6	25
AR16GH-M12	M12	—	—	8.5	6.5	

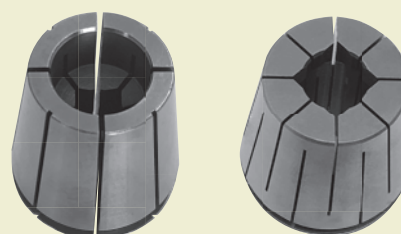
AR20GH						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR20GH-M6	M6	(1/4U)	—	6	4.5	25
AR20GH-5/16U	—	5/16U		6.1	5	
AR20GH-M8	M8	—		6.2	5	
AR20GH-M10	M10	(3/8U)		7	5.5	
AR20GH-7/16U	(M11)	7/16U		8	6	
AR20GH-PT1/8	—	—	PT1/8(1/16)	8	6	
AR20GH-M12	M12	—	—	8.5	6.5	30
AR20GH-1/2U	—	1/2U		9	7	

AR25GH						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR25GH-M6	M6	(1/4U)	—	6	4.5	25
AR25GH-5/16U	—	5/16U		6.1	5	
AR25GH-M8	M8	—		6.2	5	
AR25GH-M10	M10	(3/8U)		7	5.5	
AR25GH-7/16U	(M11)	7/16U		8	6	
AR25GH-PT1/8	—	—	PT1/8(1/16)	8	6	30
AR25GH-M12	M12	—	—	8.5	6.5	
AR25GH-1/2U	—	1/2U		9	7	
AR25GH-M14	M14	(9/16U)	PT1/4	10.5	8	
AR25GH-PT1/4	—	—		11	9	
AR25GH-5/8U	—	5/8U	—	12	9	35
AR25GH-M16	M16	—		12.5	10	
AR25GH-PT3/8	—	—	PT3/8	14	11	

AR32GH						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR32GH-M6	M6	(1/4U)	—	6	4.5	25
AR32GH-5/16U	—	5/16U		6.1	5	
AR32GH-M8	M8	—		6.2	5	
AR32GH-M10	M10	(3/8U)		7	5.5	
AR32GH-7/16U	(M11)	7/16U		8	6	
AR32GH-PT1/8	—	—	PT1/8(1/16)	8	6	30
AR32GH-M12	M12	—	—	8.5	6.5	
AR32GH-1/2U	—	1/2U		9	7	
AR32GH-M14	M14	(9/16U)	PT1/4	10.5	8	
AR32GH-PT1/4	—	—		11	9	
AR32GH-5/8U	—	5/8U	—	12	9	35
AR32GH-M16	M16	—		12.5	10	
AR32GH-PT3/8	—	—	PT3/8	14	11	
AR32GH-M18	M18	(3/4U)	—	15	12	
AR32GH-M20	M20	—		17	13	
AR32GH-M22	M22	—		17	13	33

AR40GH						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR40GH-M10	M10	(3/8U)	—	7	5.5	30
AR40GH-7/16U	(M11)	7/16U		8	6	
AR40GH-PT1/8	—	—	PT1/8(1/16)	8	6	35
AR40GH-M12	M12	—	—	8.5	6.5	
AR40GH-1/2U	—	1/2U		9	7	
AR40GH-M14	M14	(9/16U)	PT1/4	10.5	8	
AR40GH-PT1/4	—	—		11	9	
AR40GH-5/8U	—	5/8U	—	12	9	40
AR40GH-M16	M16	—		12.5	10	
AR40GH-PT3/8	—	—	PT3/8	14	11	
AR40GH-M18	M18	(3/4U)	—	15	12	
AR40GH-M20	M20	—		17	13	
AR40GH-M22	M22	(7/8U)	PT1/2	18	14	
AR40GH-PT1/2	—	—		19	15	
AR40GH-M24	M24	—	—	19	15	40
AR40GH-M27	M27	(1U)		20	15	

GB type / GH type



Rotation stop for tap

Square holes are preprocessed inside the AR (ER) collet

■ Remarks

- (1) The above chart is based on JIS Standard.
 ANSI, DIN, the ISO shank or when using the tap size not listed in the catalog, please contact to "ALPS TOOL".
- (2) Each suitable collet is required for each tap size.
- (3) When tapping with machine synchronized feed(synchro-Tap), above tap collet with ECH collet holder can be used for tapping.
- (4) Inner diameter shape differs depending on the size d.
- (5) AR50GB is order made.
- (6) When you use GH type, please make sure the cutting tool is put into the bottom inside of the collet hole.

Collet Holder with Flange

for Turret lathe

Suitable for NC lathe holders with flat shanks.



Form explanation

SSH 16 - ECH 7 - 32
 Shape Shank diameter Type Grasp diameter Length

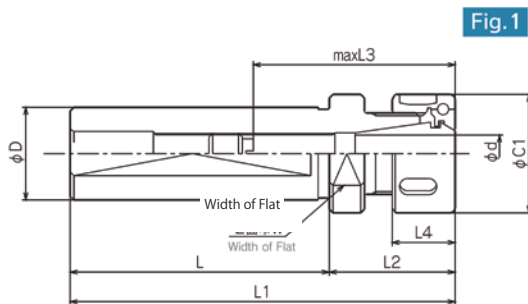
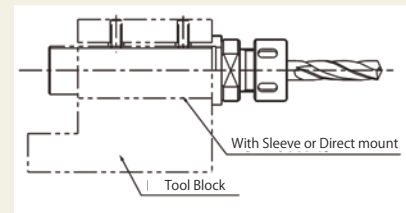


Fig. 1

with Flange



● Ex:) For NC lathe. Please choose in Fig1 or Fig2

Fig. 2

mm specification

CODE	φd	φD	Fig.	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part	
								Code	$\varphi C1$	L4			Collet	Wrench
SSH16 -ECH 7 - 32	0.5 - 7	16	2	32	48	16	35	NA11	23	11.5	14	ECH 7-05	AR11-d	FK-3
-ECH 7 - 70			1	70	94	24	55				19			
SSH20 -ECH 7 - 45			2	45	61	16	45				17			
-ECH 7 - 70			1	70	94	24	55				19			
-ECH 7 - 105	0.5 - 10	20	1	105	129	24	70	NA16	32	17	17	ECH10-05	AR16-d	FK-4
-ECH10- 40			2	40	63	23	45				17			
-ECH10- 70			1	70	105	35	70				24			
-ECH10-105			1	105	140	35	80				24			
-ECH13- 70	0.5 - 13	25	1	70	106	36	75	NA20	36	19	27	ECH13-05	AR20-d	FK-5
SSH25 -ECH 7 - 62	0.5 - 7		2	62	86	24	55	NA11	23	11.5	19	ECH 7-05	AR11-d	FK-3
-ECH10- 70	0.5 - 10		1	70	105	35	70	NA16	32	17	27	ECH10-05	AR16-d	FK-4
-ECH10-105	0.5 - 10		1	105	140	35	80	NA16	32	17	27	ECH10-05	AR16-d	FK-4
-ECH13- 70	0.5 - 13	32	1	70	106	36	75	NA20	36	19	27	ECH13-05	AR20-d	FK-5
-ECH16- 70	0.5 - 16		1	70	110	40	80	NA25	43	20	36	ECH16-05	AR25-d	FK-6
SSH32 -ECH13- 80	0.5 - 13		1	116	36	75	75	NA20	36	19	32	ECH13-05	AR20-d	FK-5
-ECH16- 80	0.5 - 16		1	120	40	80	80	NA25	43	20	36	ECH16-05	AR25-d	FK-6
-ECH20- 80	2 - 20	40	1	128	48	100	100	NA32	51	23	46	ECH20-05	AR32-d	FK-8
SSH40 -ECH20- 80			1	110	158	48	100	NA32	51	23	46	ECH20-05	AR32-d	FK-8
-ECH20-110	2 - 20	40	1	110	158	48	100	NA32	51	23	46	ECH20-05	AR32-d	FK-8

Remarks

- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not come with Collet holder. If you need a wrench, please order separately.
- (3) Collet nut can be replaced with Type "Hex Nut" for avoiding interference.
- (4) Please contact us if you need a special shape.

Y Adjustable Holder

Adjustable

Y axis

for Turret lathe

Adjustable cutting edge
for Y axis positioning

Adjustment amount

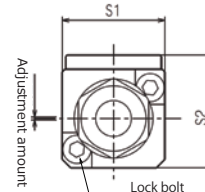
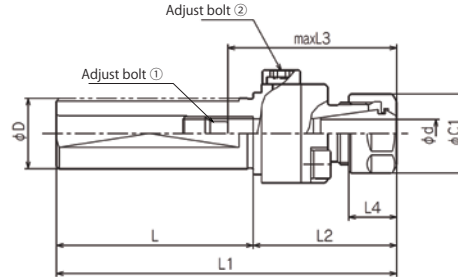
$\pm 0.3\text{mm}$



Form explanation

SBH 20 - ECH 7 M - 70
Shank diameter Type Grasp diameter Length
Shape

*Can also be used as coolant thru.
Alignable chuck center line and drill center line.



CODE	φ d	φ D	L	L1	L2	Max L3	S1	S2	Nut size			Adjust bolt ①	Optional part		Wrench for Lock bolt *1	Wrench for Adjust bolt ② *2
									Code	L4	φ C1		Collet	Nut Wrench		
SBH3/4-ECH7M- 70	0.5 - 7	19.05	70	108	38	55	25	29	NA11M	12	16	2S06035	AR11-d	AE11M	H3	H3
SBH 20 -ECH7M- 70		20														
-ECH10 - 70	0.5 - 10			121	51	60	36.5	40	NA16S	17	28	2S10030	AR16-d	SP-25	H5	H5
SBH 25 -ECH10 - 70		25														
-ECH16 - 70	0.5 - 16			125	55	70	47	49	NA25S	20	42	2S12035	AR25-d	FK-6		

*1,*2 The wrench is commercial product so please prepare your own.

- Adjustable concentricity within the range of ± 0.3 .
- Extended tool life and high precision processing by eccentricity of blade edge due to frictional wear, super hard drill and reamer processing.
- Degraded accuracy of this instrument can be compensated by a holder.

- Remarks
- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not come with Collet holder. If you need a wrench, please order separately.
- (3) Please contact us if you need a special shape.

Y-X Adjustable Holder

Adjustable

Y-X axis

Cutting edge position adjustment

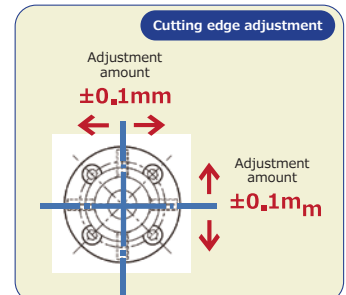
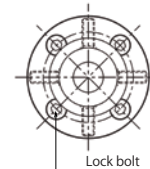
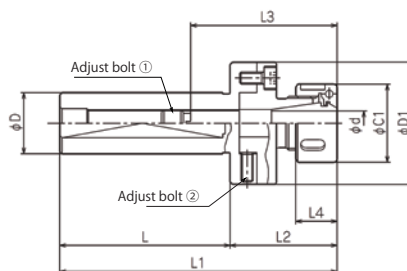
Adjustable for Y-X axis

The alignment between a chuck and a turret can be adjusted.



Form explanation

SAH 20 - ECH 10 - 70
Shank diameter Type Grasp diameter Length
Shape



CODE	φ d	φ D	L	L1	L2	Max L3	D1	Nut size			Adjust bolt ①	Optional part		Wrench for Lock bolt *1	Wrench for Adjust bolt ② *2
								Code	L4	φ C1		Collet	Wrench		
SAH20-ECH 7 - 70	0.5 - 7	20	70	105	35	55	32	NA11S	11.5	19	ECH 7-05	AR11-d	SP-17A	H4	H2.5
-ECH10- 70	0.5 - 10			114	44	60	50	NA16	17	32	ECH10-05	AR16-d	FK-4		
SAH25-ECH10- 70		25		124	54	70	62	NA25	20	43	ECH16-05	AR25-d	FK-6	H5	H3
-ECH16- 70	119			49	55		NA20	19	36	ECH13-05	AR20-d	FK-5			
SAH32-ECH13- 70	0.5 - 13	32	126	56	72	NA32	23	51	ECH20-05	AR32-d	FK-8				
-ECH20- 70	2 - 20														

*1,*2 The wrench is commercial product so please prepare your own.

- Adjustable concentricity within the range of ± 0.1 .
- Extended tool life and high precision processing by eccentricity of blade edge due to frictional wear, super-hard drill and reamer processing.(eccentricity of blade edge minimum eccentricity of blade edge)
- Degraded of positioning accuracy of the tool post can be compensated for by the holder.

Short Nose Collet Holder

mm specification

Small and short holder suitable for Swiss-type and Gang type NC lathes.

for Swiss type

for Gang type



Short Nose

- Minimize a nose length. It is suitable for small machine. (like a swiss type)



Fig.1

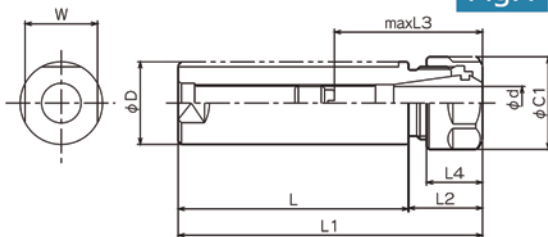


Fig.2

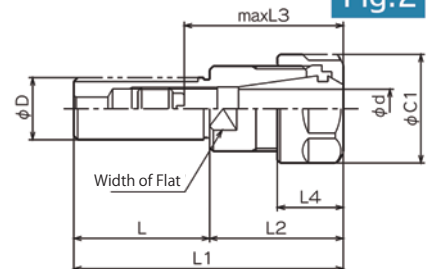


Fig.3

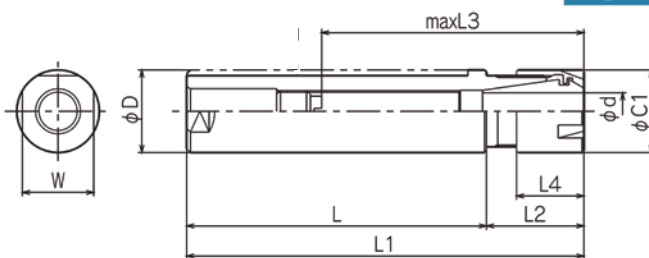
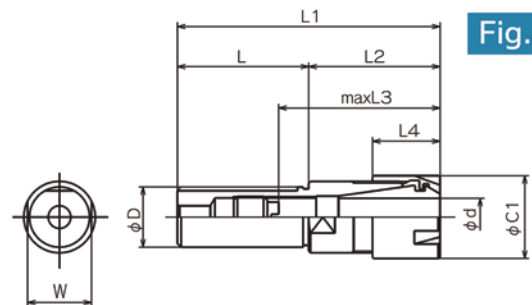


Fig.4



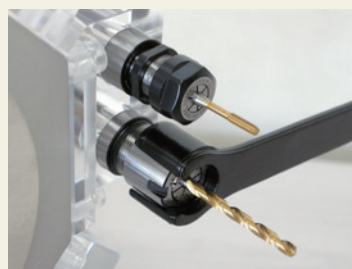
NA-M Type

Mini Nut



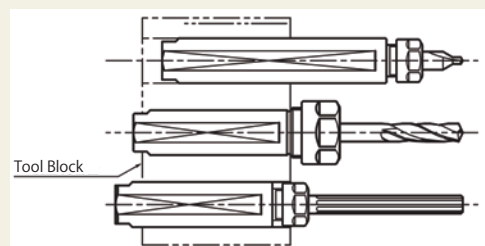
NA-S Type

Hex Nut



Please refer to P35 for detail of M Nut wrench CS type

- Ex) Short nose collet holder (Please choose between Fig1, Fig2, Fig3, Fig4)



- Minimize a nose length. It is suitable for small machine.(like a swiss type)

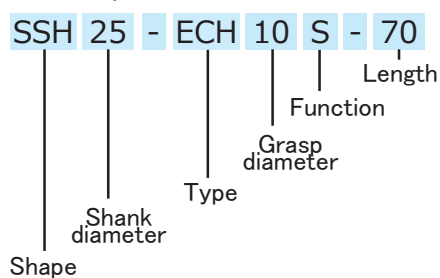
Please refer to P32 for detail of Nut

Dimensions

mm specification

CODE	φ d	φ D	Fig.	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part																
								Code	φ C1	L4			Collet	Wrench															
SSH12 -ECH 5S - 70	0.3 - 5	12	1	70	86	16	36 ※ (5)	NA8S	14.5	10.8	10	-	AR 8-d	SP-13															
SSH16 -ECH 5S - 70		16		4	35		51	35	NA11S	19	11.5				14	ECH 7-05	AR11-d	SP-17A											
-ECH 7S - 35	70				86		55	NA11M	16	12																			
-ECH 7S - 70	2		35		51	35	NA16S	28	17	19	ECH10-05	AR16-d	SP-25																
-ECH 7MS- 35			4	70	86									55	NA16M				22	18	17	ECH 7-05	AR11-d	SP-17A					
-ECH 7MS- 70	35			70	43	NA16S	28	17	19					ECH10-05	AR16-d				SP-25										
-ECH10S - 35	70	105	35	43	NA16S	28	17	19								ECH10-05	AR16-d	SP-25											
-ECH10S - 70	35	70																		NA16M					22	18	17	ECH 7-05	AR11-d
-ECH10MS- 35	70	105								20	1	40	56							40					NA11S	19			
-ECH10MS- 70	40	62	45	NA16S	28	17	ECH13-05					AR20-d	SP-30																
SSH20 -ECH 7S - 40	70	92	70						30					55 ※ (5)	NA20S				34	19	22	-	AR20-d	SP-30					
-ECH 7S - 70	105	127	80					75		22	ECH13-05			AR20-d		SP-30													
-ECH 7S -105	40	70	30	55 ※ (5)	NA20S	34		19									22	-							AR20-d	SP-30			
-ECH10S - 40	70	100	30	75					NA20S						34				19	22							-	AR20-d	SP-30
-ECH10S - 70	40	70	30	75			NA20S			34	19	22	-	AR20-d		SP-30													
-ECH13S - 40	70	100	30	75	NA20S	34		19													22	-	AR20-d	SP-30					
-ECH13S - 70	40	70	30	75					NA20S						34				19										
SSH22 -ECH7MS - 40	70	100	30	75			NA20S			34	19						22	-							AR20-d	SP-30			
-ECH7MS - 70	40	56.5	16.5	40	NA11M	16		12												19							ECH 7-05	AR11-d	AE11M AE11M-CS
-ECH7MS - 105	70	86.5	16.5	55					NA11M			16	12	19	ECH 7-05	AR11-d			AE11M AE11M-CS										
-ECH7MS - 120	105	121.5	16.5	55			NA11M			16	12										19	ECH 7-05	AR11-d	AE11M AE11M-CS					
-ECH7MS - 120	120	136.5	16.5	55	NA11M	16		12																					
-ECH10MS- 38	38	64	26	52					NA16M			22	18				19	ECH10-05							AR16-d	AE16M AE16M-CS			
-ECH10MS- 70	70	96	26	70			NA16M			22	18									19							ECH10-05	AR16-d	AE16M AE16M-CS
-ECH10MS- 80	80	106	26	70	NA16M	22		18						19	ECH10-05	AR16-d			AE16M AE16M-CS										
-ECH10MS-105	105	131	26	80					NA16M			22	18								19	ECH10-05	AR16-d	AE16M AE16M-CS					
SSH25 -ECH 7S - 62	0.5 - 7	25	1	62			78			16	55																		
-ECH 7S - 70				70	86	16	55	NA11S		19	11.5						-	ECH 7-05							AR11-d	SP-17A			
-ECH 7S - 85				85	101	16	55		NA11S			19	11.5							-							ECH 7-05	AR11-d	SP-17A
-ECH 7S -105	105		121	16	70	NA11S	19							11.5	-	ECH 7-05			AR11-d										
-ECH10S - 40	0.5 - 10		1	40	63			23		45	NA16S						28	17			22	ECH10-05	AR16-d	SP-25					
-ECH10S - 50				50	73			23	55	NA16S		28	17							22					ECH10-05	AR16-d	SP-25		
-ECH10S - 70				70	93	23	70	NA16S	28					17	22	ECH10-05			AR16-d									SP-25	
-ECH10S -105			105	128	23	80	NA16S				28						17	22											ECH10-05
-ECH13S - 50		0.5 - 13	1	50	74	24				55		NA20S	34																
-ECH13S - 70	70			94	24	75		NA20S	34	19				27							ECH13-05	AR20-d	SP-30						
-ECH16S - 50	50			85	35	52	NA25S				42						20			27				ECH16-05	AR25-d	FK-6			
SSH32 -ECH13S - 60	0.5 - 13	32	1	60	86	26						65	NA20S		34	19			27								ECH13-05	AR20-d	
-ECH16S - 60	0.5 - 16			60	87	27		65	NA25S	42		20	27		ECH16-05	AR25-d		FK-6											

Form explanation



Remarks

- (1) Used in combination with AR collet. Please order together.
- (2) Spanner is not included.
- (3) Can be used in combination with standard nuts.
If the gripping force is insufficient, use a replacement nut.
- (4) Special shank dimensions other than the above are also available.
- (5) Adjusting mechanism for stick-out adjustment is not provided.
- (6) ECH16S has a different nut shape.

Short Nose Collet Holder

Inch specification

Small and short holder suitable for Swiss-type and Gang type NC lathes.

for Swiss type

for Gang type



Short Nose

- Minimize a nose length. It is suitable for small machine. (like a swiss type)



Nut

AR Collet

Collet Chuck Holder

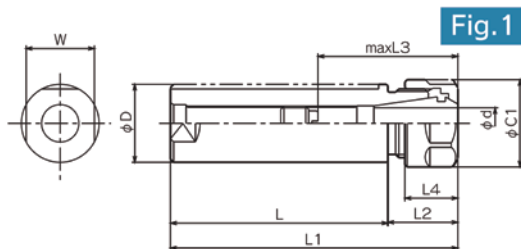


Fig.1

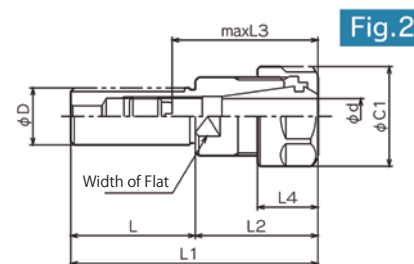


Fig.2

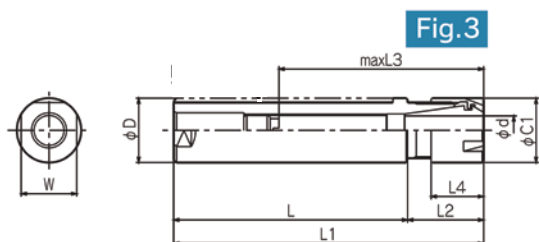


Fig.3



NA-M Type

Mini Nut



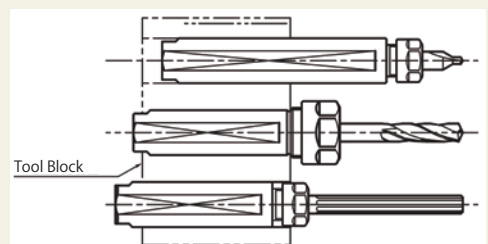
NA-S Type

Hex Nut



Please refer to P35 for detail of M Nut wrench CS type

- Ex) Short nose collet holder (Please choose between Fig1, Fig2, Fig3, Fig4)



- Minimize a nose length. It is suitable for small machine. (like a swiss type)

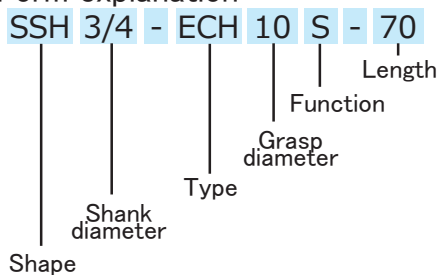
Please refer to P32 for detail of Nut

Dimensions

Inch specification

CODE	φ d	φ D	Fig.	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part								
								Code	φ C1	L4			Collet	Wrench							
SSH5/8 -ECH 7S - 70	0.5 - 7	15.875	1	70	86	16	55	NA11S	19	11.5	14	ECH 7-05	AR11-d	SP-17A							
-ECH10S - 70	0.5 - 10		2			105	35	43	NA16S	28	17	19	ECH10-05	AR16-d	SP-25						
SSH3/4 -ECH 7S - 40	0.5 - 7	19.05	1	40	56	16	40	NA11S	19	11.5	17	ECH 7-05	AR11-d	SP-17A							
-ECH 7S - 70				70	86		55														
-ECH 7S - 105				105	121		70														
-ECH 7S - 120				120	136																
-ECH 7MS- 40				40	56.5		40														
-ECH 7MS- 70			70	86.5	16.5	55	NA11M	16	12	AE11M AE11M-CS											
-ECH 7MS- 105			105	121.5																	
-ECH 7MS- 120			120	136.5																	
-ECH10S - 40			1	40										62	45	NA16S	28	17	ECH10-05	AR16-d	SP-25
-ECH10S - 70				70										92	70						
-ECH10S - 105				105	127	80															
-ECH10S - 120	120			142																	
-ECH10MS- 40	40			65	45																
-ECH10MS- 70	3		70	95	70	NA16M	22	18	AE16M AE16M-CS												
-ECH10MS-105			105	130	80																
-ECH10MS-120			120	145																	
-ECH13S - 40			2	40	70					30		55 ※ (5)	NA20S	34	19	-	AR20-d	SP-30			
SSH1 -ECH 7S - 70	0.5 - 7	25.4	1	70	86	16	55	NA11S	19	11.5	22	ECH 7-05	AR11-d	SP-17A							
-ECH 7S - 105				105	121		70														
-ECH 7MS- 70			3	70	86.5	16.5	55	NA11M	16	12				AE11M AE11M-CS							
-ECH 7MS- 105				105	121.5																
-ECH10S - 50	1		50	73	23	50	NA16S	28	17	ECH10-05		AR16-d	SP-25								
-ECH10S - 70			70	93		70															
-ECH10S - 105			105	128		80															
-ECH10MS- 50			3	50		76								50	NA16M	22	18	AE16M AE16M-CS			
-ECH10MS- 70				70		96								70							
-ECH10MS-105	105			131	80																
-ECH13S - 50	0.5 - 13		1	50	74	24	55	NA20S	34				19	ECH13-05	AR20-d	SP-30					
-ECH13S - 70				70	94		75														
-ECH16S - 50	0.5 - 16			2	50	85	35	52	NA25S				42	20	27	ECH16-05	AR25-d	FK-6			

Form explanation



Remarks

- (1) Used in combination with AR collet. Please order together.
- (2) Spanner is not included.
- (3) Can be used in combination with standard nuts.
If the gripping force is insufficient, use a replacement nut.
- (4) Special shank dimensions other than the above are also available.
- (5) Adjusting mechanism for stick-out adjustment is not provided.
- (6) ECH16S has a different nut shape.

Short Nose Collet Holder Two-Head Holder

mm specification

Inch specification

for Swiss type

Form explanation

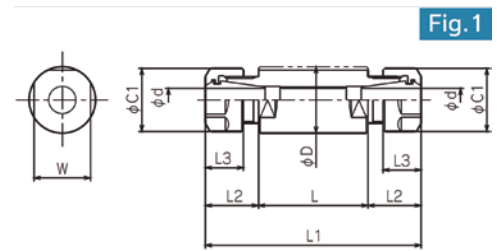
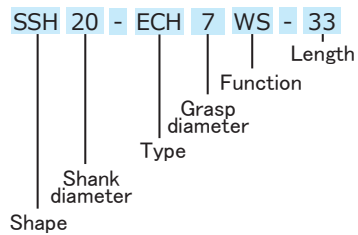


Fig.1

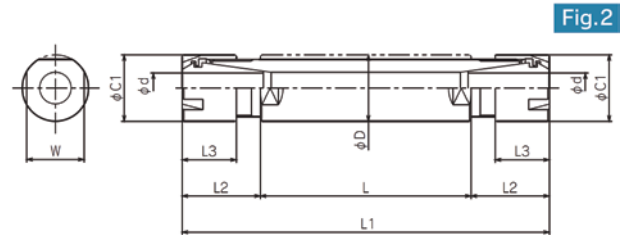


Fig.2

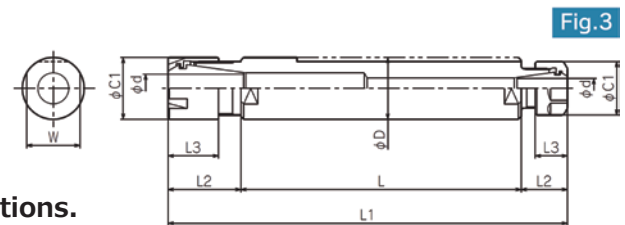


Fig.3

Utilize front and back processing in a single tool.
 Ideal for Swiss-type and small automatic machines.
 Supports O.D. size in both Metric and Inch specifications.

CODE	φ d	φ D	Fig.	L	L1	L2	Nut size			W	Optional part	
							Code	φ C1	L3		Collet	Nut Wrench
SSH 20 -ECH 7WS -33	0.5 - 7	20	1	33	65	16	NA11S	19	11.5	17	AR11-d	SP-17A
-ECH 7WS -53				53	85							
SSH3/4 -ECH 7WS -33		19.05		33	65							
-ECH 7WS -53				53	85							
SSH 22 -ECH10WM -38	0.5 - 10	22	2	38	90	26	NA16M	22	18	19	AR16-d	AE16M AE16M-CS
-ECH10WM -63				63	115							
-ECH10WM -70				70	122							
-ECH10WM -85				85	137							
-ECH10/7WMS-100	0.5 - 7	25	3	100	142.5	16.5	NA11S	19	11.5	-	AR11-d	SP-17A
	0.5 - 10				26	NA16M	22	18	AR16-d		AE16M AE16M-CS	
SSH 25 -ECH10WM -50	0.5 - 10				26	NA16M	22	18	AR16-d		AE16M AE16M-CS	
	1 - 13				27	NA20M	28	19	AR20-d		AE20M	
-ECH13/10WM- 50	0.5 - 10	25.4	2	50	103	26	NA16M	22	18	22	AR16-d	AE16M AE16M-CS
SSH 1 -ECH10WM -70	0.5 - 10				26	NA16M	22	18	AR16-d		AE16M AE16M-CS	
-ECH10WM -105	0.5 - 10				27	NA20M	28	19	AR20-d		AE20M	
	1 - 13				26	NA16M	22	18	AR16-d		AE16M AE16M-CS	
-ECH13/10WM- 70	0.5 - 10	32	2	70	123	27	NA20M	28	19	27	AR16-d	AE16M AE16M-CS
	0.5 - 13				27	NA20M	28	19	AR20-d		AE20M	
-ECH13/10WM-105	0.5 - 10				26	NA16M	22	18	AR16-d		AE16M AE16M-CS	
	0.5 - 10				27	NA20M	28	19	AR20-d		AE20M	
SSH 32 -ECH13WM -55	0.5 - 13	32	2	55	109	27	NA20M	28	19	27	AR20-d	AE20M
-ECH13WM -85				85	139							

■ Remarks

- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not included with Collet holder. If you need a wrench, please order separately.
- (3) Please contact us if you need a special shape.

Coolant Thru Collet Holder

Collet Holder with Pipe Thread Rc 1/8

mm specification

Inch specification

for Turret lathe

Form explanation

SSH 20 - ECH 10 OH - 40

Shape Shank diameter Type Grasp diameter Function Length

Collet to use

OH type C type

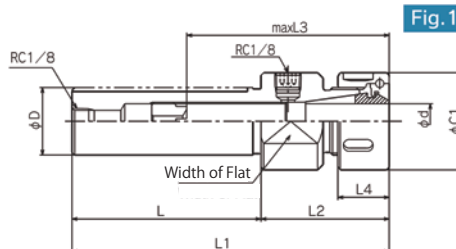
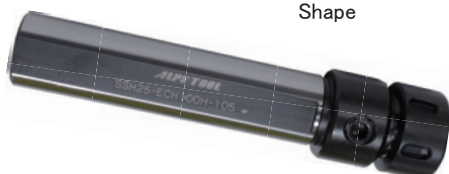
 Coolant Thru
20MPa Available


Fig.1

Fig. 1

Rear pipe

Side pipe

CODE	φ d	φ D	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part	
							Code	φ C1	L4			Collet	Nut Wrench
SSH20 -ECH 70H- 70	1.9 - 7	20	70	106	36	55	NA11	23	11.5	27	ECH 70H-05	AR110H-d	FK-3
-ECH100H- 40	1.9 - 10		40	85	45	45	NA16	32	17	30	ECH100H-05	AR160H-d	FK-4
-ECH100H- 70				115		70							
-ECH130H- 70	2.9 - 13		70	117.5	47.5	75	NA20	36	19	32	ECH130H-05	AR200H-d	FK-5
SSH25 -ECH100H- 70	1.9 - 10	25		115	45	70	NA16	32	17	30	ECH100H-05	AR160H-d	FK-4
-ECH100H-105			105	150		80							
-ECH130H- 70	2.9 - 13		70	117.5	47.5	75	NA20	36	19	32	ECH130H-05	AR200H-d	FK-5
-ECH160H- 70	2.9 - 16			121	51	80	NA25	43	20	36	ECH160H-05	AR250H-d	FK-6
SSH32 -ECH130H- 75	2.9 - 13	32	75	122.5	47.5	75	NA20	36	19	32	ECH130H-05	AR200H-d	FK-5
-ECH160H- 75	2.9 - 16			126	51	80	NA25	43	20	36	ECH160H-05	AR250H-d	FK-6
-ECH200H- 75	2.9 - 20			130	55		NA32	51	23	46	ECH200H-05	AR320H-d	FK-8
SSH3/4 -ECH100H-105	1.9 - 10			19.05	105	150	45	80	NA16	32	17	30	ECH100H-05
SSH 1 -ECH100H-105		25.4											

for Swiss type

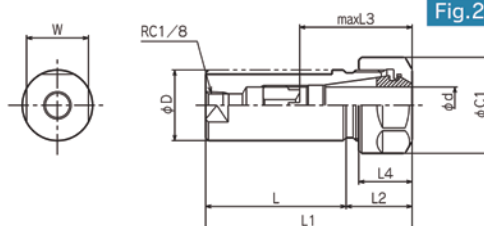


Fig.2



Fig. 2

Rear pipe

CODE	φ d	φ D	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part	
							Code	φ C1	L4			Collet	Nut Wrench
SSH20-ECH 7 S OH- 40	1.9 - 7	20	40	56	16	31	NA11S	19	11.5	17	ECH 7OH-05	AR11OH-d	SP-17A
-ECH10S OH- 40	1.9 - 10		70	62	22	33	NA16S	28	17		ECH10OH-05	AR16OH-d	SP-25
-ECH10S OH- 70			40	92		55							
SSH25-ECH10S OH- 40	2.9 - 13	25	40	63	23	33	NA20S	34	19	22	ECH13OH-05	AR20OH-d	SP-30
-ECH10S OH- 50			50	73.5	73	23.5							
-ECH13S OH- 50	2.9 - 13	32	80	115	35	75	NA32S	50	23	36	ECH20OH-05	AR32OH-d	FK-7
SSH32-ECH20S OH- 80	2.9 - 20												

Remarks

- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not included with Collet holder. If you need a wrench, please order separately.
- (3) Please contact us if you need a special shape.
- (4) ECH20S is different in nut shape.

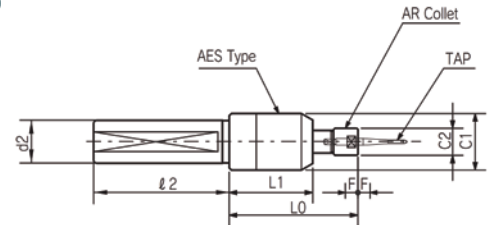
Tap Holder AES type with Micro Float

Tap holder for NC lathes that absorbs thread pitch errors by slightly extending and retracting the shaft.



for Precision tap processing

Form explanation
STT 3/4 - AES 103 - 60
Shape Shank diameter Type Grasp diameter Length



- Synchronous control machining
- Micro float tapper (with micro expansion/contraction)
- Carbide tapping
- High-speed tapping

CODE	φ d2	L0	L1	C1	φ C2	Floating F	ℓ 2	Capacity	Nut	Optional part	
										Collet	Wrench
STT3/4-AES103 - 60	19.05	57	37	25	12	± 0.4	60	M1 - M3	NA8MR	AR 8	SP-11
STT 20-AES103 - 60	20										
STT 22-AES412-OHC- 60	22										
STT 25-AES412-OHC- 75	25	85	61.7	42	22	± 0.5	75	M4 - M12	NA16M	AR16 ※	AE16M AE16M-CS
STT 1-AES412-OHC- 75	25.4										
STT 32-AES412-OHC- 80	32										

■ Remarks Available Collet

※ : AR16GB-M4 — M12 , AR16GH-M5 — M12

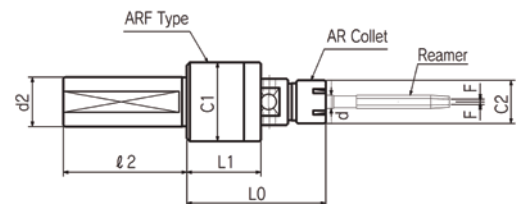
Tap Holder ARF type with Radial Float

Radial floating Tap Holder CNC Lathes



for Reamer processing

Form explanation
STT 16 - ARF 306 - 50
Shape Shank diameter Type Grasp diameter Length



- Synchronous control machining
- Radial float tapper
- Used as reamer holder

CODE	φ d2	L0	L1	C1	φ C2	Floating F	ℓ 2	Capacity	Nut	Optional part	
										Collet	Nut Wrench
STT 16-ARF306- 50	16	77	50	40	16	± 0.8	50	φ 4 - φ 6 (M3 - M6)	NA11M	AR11	AE11M AE11M-CS
STT3/4-ARF306- 60	19.05						60				
STT 20-ARF306- 60	20						75				
STT 22-ARF306- 60	22	90	48	51	28	± 1.0	60	φ 5 - φ 11 (M4 - M14)	NA20M	AR20	AE20M AE20M-CS
STT 25-ARF306- 75	25						75				
STT 20-ARF414- 60	20						80				
STT 25-ARF414- 75	25	90	48	51	28	± 1.0	75	φ 5 - φ 11 (M4 - M14)	NA20M	AR20	AE20M AE20M-CS
STT 1-ARF414- 75	25.4						80				
STT 32-ARF414- 80	32						80				

■ Remarks

(1) L0 dimension is the standard value.

(2) Specifications are subject to change without notice for improvement.

Small Size Boring Bar Holder

Boring sleeves for NC lathes

Side-locking the boring bites stabilizes the cutting edge position compared to clamping with an AR collet.



Form explanation

SSH 20 - BSH 10 - 70

Shape Shank diameter Type Grasp diameter Length

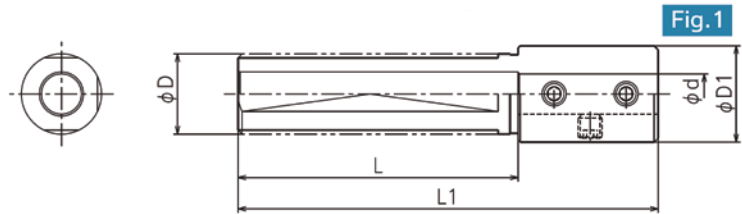


Fig.1

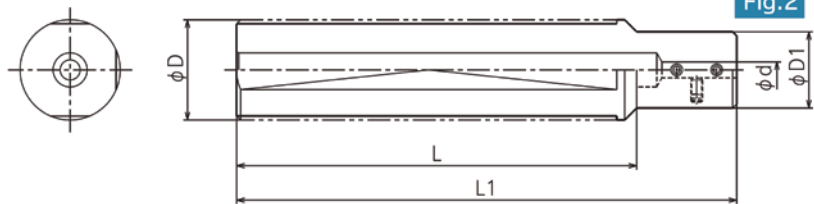


Fig.2

CODE	Fig.	ϕd	ϕD	$\phi D1$	L1	L
SSH16 - BSH 4- 70	1	4	16	19	100	70
- BSH 5- 70		5				
- BSH 6- 70		6		24	105	
- BSH 7- 70		7				
- BSH 8- 70		8				
SSH20 - BSH 4- 70	2	4	20	19	100	70
- BSH 5- 70		5				
- BSH 6- 70		6		24	105	
- BSH 7- 70		7				
- BSH 8- 70		8				
- BSH10- 70	1	10	20	24	105	70
- BSH12- 70		12				
SSH3/4 - BSH 4- 70	2	4	19.05	19	100	70
- BSH 5- 70		5				
- BSH 6- 70		6		24	105	
- BSH 7- 70		7				
- BSH 8- 70		8				
- BSH10- 70	1	10	22	24	105	100
- BSH12- 70		12				
SSH22 - BSH 4-100	2	4	22	19	125	100
- BSH 5-100		5				
- BSH 6-100		6		24	130	
- BSH 7-100		7				
- BSH 8-100		8				
- BSH10-100	1	10	25	24	130	100
- BSH12-100		12				
SSH25 - BSH 4-100	2	4	25	19	125	100
- BSH 5-100		5				
- BSH 6-100		6		24	130	
- BSH 7-100		7				
- BSH 8-100		8				
- BSH10-100	2	10	25	24	130	100
- BSH12-100		12				

- Remarks
Please contact us if you need a special shape.

~ Reference Listing ~

Hybrid Holder

Two head type

Two head type

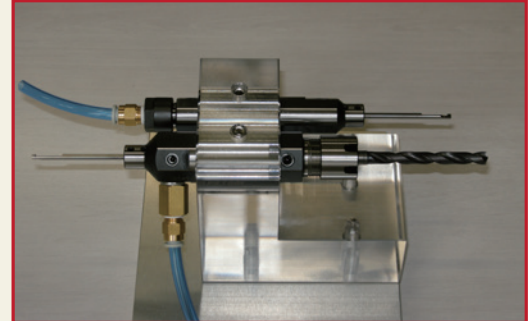
One Side

Boring Bar Holder

One Side

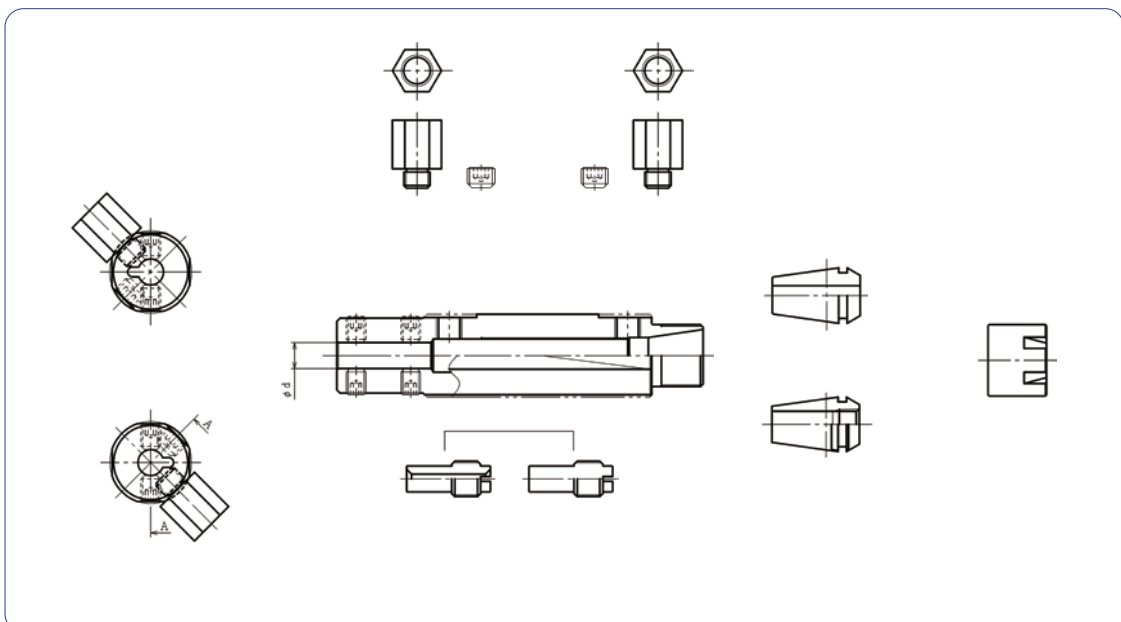
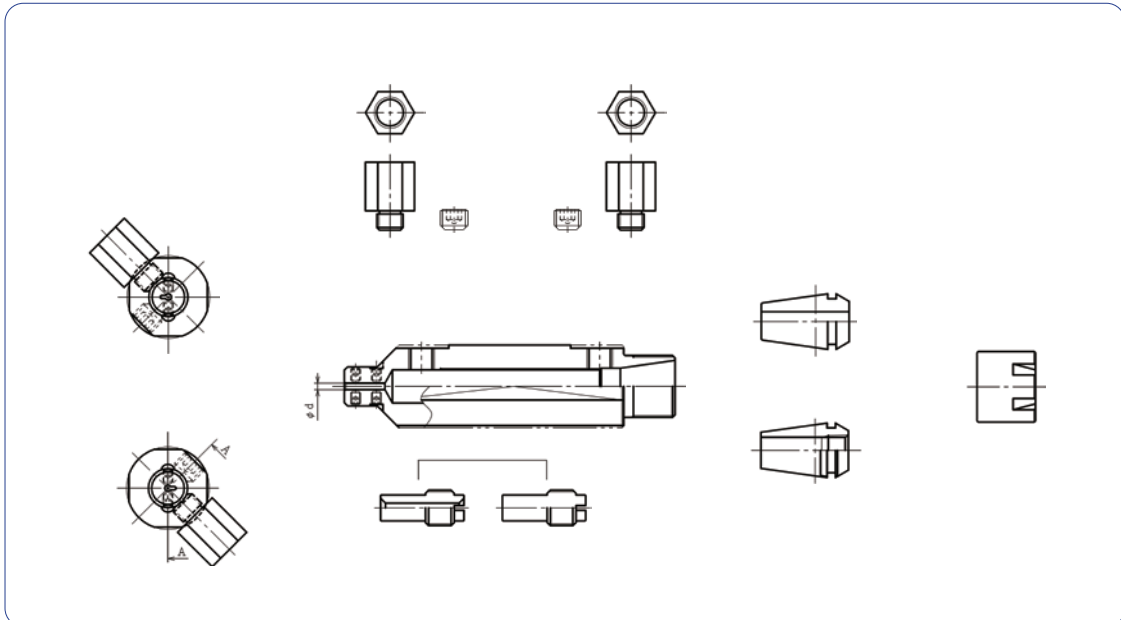
AR Collet Holder

for CNC lathe



Ex)

*For specific specifications and details, please contact our sales department.



Tool Change Head AR type

Simply replace the existing nut and install.
No need to change the main body of the Live tool,
collet holder, etc.

Reduce interference

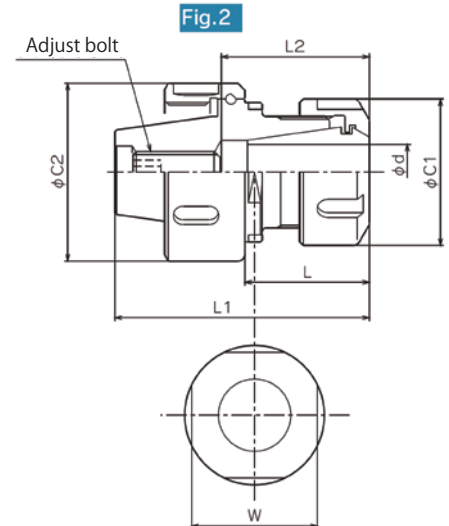
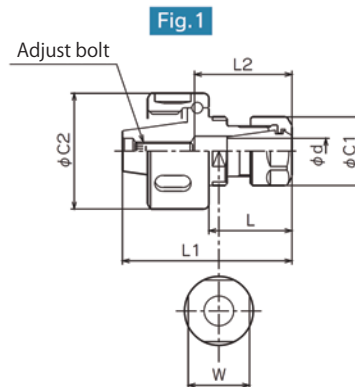
Change the collet size

Easily to change the extension length



Form explanation

TCR 20 - ECH 10 - 30
Shape Shank diameter Type Grasp diameter Length

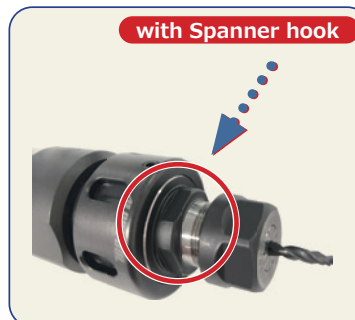


CODE	Fig.	Mounting side	d	L	L1	L2	Head Nut		φ C2	W	Adjust bolt	Collet	Optional Part		
							Wrench						Mounting side	Width	Head side
							φ C1	Code							
TCR11-ECH 7-22	1	ECH 7	0.5 - 7	22	38.5	22	19	NA11S	23	15	4S04012	AR11-d	FK-3	SP-15	SP-17A
TCR16-ECH 7-22		ECH10			46	25			32	17	4S05016		FK-4	SP-17A	
TCR16-ECH10- 30		ECH13	0.5 - 10	30	54	33	28	NA16S	32	22	4S06020	AR16-d	FK-5	SP-22	SP-25
TCR20-ECH10-30					60	35			36	25				AR20-d	
TCR20-ECH13- 32	2	ECH16	0.5 - 13	32	62	37	34	NA20S	36	25	4S10020	AR25-d	FK-6	SP-30	SP-30
TCR25-ECH13- 32					65	40			43	30				AR25-d	
TCR25-ECH16- 34		ECH20	0.5 - 16	34	67	42	42	NA25S	43	32	4S12020	AR32-d	FK-8	SP-36	FK-6
TCR32-ECH16- 35					72	45			51	36				AR32-d	
TCR32-ECH20- 37		ECH26	2 - 20	37	74	47	50	NA32S	51	40	4S16025	FK-9	SP-46	FK-7	
TCR40-ECH20- 37					82	50			63	46			AR32-d		SP-46

Example of use with Livetool



Work effucency



Interference avoidance

minimum stick out amount

Avoid hitting area



Collet Holder

Round Shank Holder without flattening

Holders with round shanks for machining centers, etc.

As an extension holder

Interference avoidance

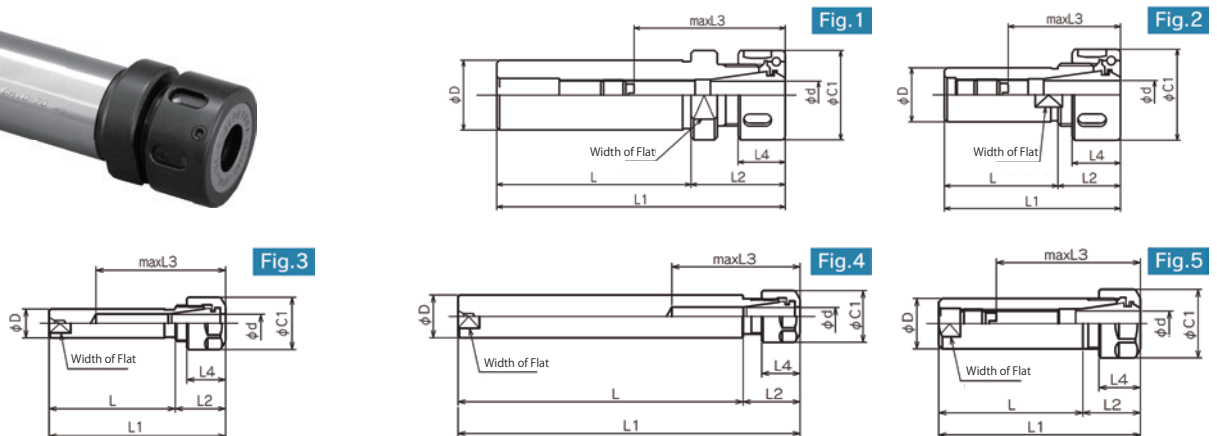
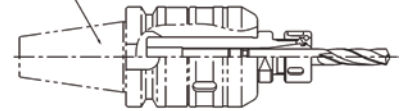


Form explanation

SS 25 - ECH 10 - 70
 Shape Shank diameter Type Grasp diameter Length

● Ex) when you use machining center

Holder, Type "R", "C" and "S"
 BTO -ARHO -
 BTO -TRXO -
 BTO -ECHO -



CODE	φ d	φ D	Fig.	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part			
								Code	φ C1	L4			Collet	Wrench		
SS 8 -ECH 5S- 35	0.3 - 5	8	3 ※ (5)	35	49	14	36 ※ (6)	NA8S	14.5	10.8	6	-	AR 8-d	SP-13		
SS12 -ECH 5S- 80		12	4 ※ (5)	80	96						10					
SS14 -ECH 7S- 40		14	5 ※ (5)	40	56	16		40	NA11S	19					12	ECH 7-05
SS16 -ECH 7 - 40	0.5 - 7	16	2				NA11	23	11.5	14						
-ECH 7 - 70			1	70	94	24				55	19					
SS20 -ECH 7 - 45			20	2	45	61				16	45		17			
SS25 -ECH10 - 70	0.5 - 10	25	1	70	105	35	70	NA16	32	17	27	ECH10-05	AR16-d	FK-4		
-ECH10-150				150	185		55									
-ECH13 - 70	70			106	36											
-ECH13 -150	0.5 - 13			150	185	35	75	NA20	36	19		ECH13-05	AR20-d	FK-5		
-ECH13 -200				200	235											
-ECH16 - 70	0.5 - 16	70		110												
-ECH16 -150		150		190	40	80	NA25	43	20	36	ECH16-05	AR25-d	FK-6			
-ECH16 -200		200		240												
SS32 -ECH10 - 80	0.5 - 10	32		1		119	39	70	NA16	32	17	32	ECH10-05	AR16-d	FK-4	
-ECH13 - 80	0.5 - 13				80	116	36	75	NA20	36	19		ECH13-05	AR20-d	FK-5	
-ECH16 - 80	0.5 - 16					120	40	80	NA25	43	20	36	ECH16-05	AR25-d	FK-6	
-ECH16 -150					150	190		67								
-ECH20 - 80						80	128									
SS40 -ECH20 -110	2 - 20	40			1		110	158	100	NA32	51	23	46	ECH20-05	AR32-d	FK-8
-ECH20 -200							200	248					36			
-ECH20 -300						300	348	46								

■ Remarks

- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not included with Collet holder. If you need a wrench, please order separately.
- (3) Collet nut can be replaced with type "S" Nut when interference takes place.
- (4) Shanks other than shown are available on special order.
- (5) Code No. 5S and 7S is come with type "S" Nut.
- (6) No adjustment mechanism.

Dimension of Adjust Bolt

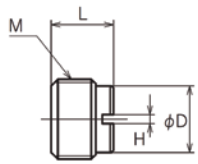


FIG.1

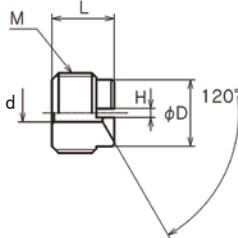


FIG.2

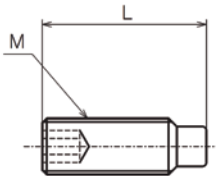


FIG.3

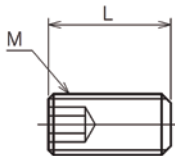


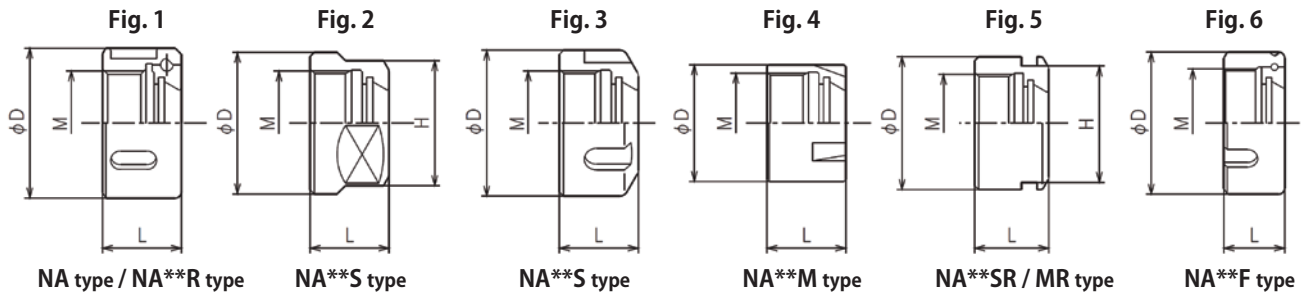
FIG.4

CODE	φ D	L	φ d	H	M	Fig.	JIS
ECH 7-05	6	10	-	1.5	M 8 $\times$ 1.0	1	
ECH10-05	8	12		M11 $\times$ 1.0			
ECH13-05	11	13		M14 $\times$ 1.0			
ECH16-05	15	14		M18 $\times$ 1.5			
ECH20-05	20	16		M24 $\times$ 1.5			
ECH 70H-05	6	10	3	1.5	M 8 $\times$ 1.0	2	
ECH100H-05	8	12	M11 $\times$ 1.0				
ECH130H-05	11	13	4	2	M14 $\times$ 1.0		
ECH160H-05	15	14			M18 $\times$ 1.5		
ECH200H-05	20	16			5		M24 $\times$ 1.5
2S06035	-	35	-	-	M 6 $\times$ 1.0	3	JISB1177
2S10030		30			M10 $\times$ 1.5		
2S12035		35			M12 $\times$ 1.75		
4S05016		16			M 5 $\times$ 0.8	4	
4S06020		20			M 6 $\times$ 1.0		
4S10020					M10 $\times$ 1.5		
4S12020					M12 $\times$ 1.75		
4S16025		25			M16		

• This stands for the dimensions of the adjusting bolts included with holders.

Various series of Nuts

Collet Nuts



◎ NA** type w/ Bearings

Shielding type with ball bearings.
 You can get the stable high accuracy of TIR. Roughly 30% of clamping power being increased as compared with the S-type. Utilize for heavy cutting.

◎ NA**S type Hex Head

Smaller size than NA type, so best suitable in case that cutting area is small.

◎ NA**M type Mini Nut

Outer dimensions are minimized as much as possible.
 Utilize, when tool interference takes place.
 Note: A special holder is required, as the size of M thread is different.

◎ NA**F type Thin Nut

Thickness is made still thinner than NA type. Note: The size of M thread is different.

◎ R type for High Speed (option)

NA-R/SR** For High Speed
 High balanced design and high balanced processing are made.
 Utilize for high speed revolution. (Option)

Please specify the code like NA**R, NA**SR, NA**MR.

Ex) NA16R NA16SR NA16MR



CODE	Fig.	D	L	M	H	Collet	Holder	Nut Wrench																								
NA 11	1	23	11.5	M14 × 0.75	-	AR11-d	-ECH 7	FK-3																								
11R		32	17	M22 × 1.5		AR16-d	-ECH10	FK-4																								
16																																
16R		36	19	M25 × 1.5		AR20-d	-ECH13	FK-5																								
20																																
20R		43	20	M32 × 1.5		AR25-d	-ECH16	FK-6																								
25																																
25R		51	23	M40 × 1.5		AR32-d	-ECH20	FK-8																								
32																																
32R		63	25	M50 × 1.5		AR40-d	-ECH26	FK-9																								
40																																
50	80	35	M64 × 2.0	AR50-d	-ECH34	FK-11																										
NA 8S							14.5	10.8	M10 × 0.75	13	AR 8-d	-ECH5S	SP-13																			
11S	5	19	11.5	M14 × 0.75	17	AR11-d								-ECH 7	SP-17A																	
11SR							2	28	17	M22 × 1.5	25	AR16-d	-ECH10			SP-25																
16S	5	34	19	M25 × 1.5	30	AR20-d								-ECH13	SP-30																	
16SR							3	42	20	M32 × 1.5	-	AR25-d	-ECH16			FK-6																
20S	50	23	M40 × 1.5	AR32-d	-ECH20	FK-7																										
20SR							4	12	10.8	M10 × 0.75	-	AR 8-d	-ECH5S	AE8M																		
25S	16	12	M13 × 0.75	AR11-d		AE11M																										
32S															22	18	M19 × 1.0	AR16-d		AE16M												
NA 8M																					28	19	M24 × 1.0	AR20-d		AE20M						
11M							5	12	10.8	M10 × 0.75	11	AR 8-d		SP-11																		
16M	16	12	M13 × 0.75	15	AR11-d																						SP-15					
20M															22	18	M19 × 1.0	20	AR16-d									SP-20				
NA 8MR							6	23	11	M15 × 1.0	-	AR11-d		FK-3																		
11MR	30	15	M22 × 1.0	AR16-d		FK-4																										
16MR															35	17	M25 × 1.0	AR20-d		FK-5												
NA 11F																					42	18	M32 × 1.0	AR25-d		FK-6						
16F																											50	19	M40 × 1.0	AR32-d		FK-8
20F																																
25F																																
32F																																

- Remarks (1) NA-R/SR/MR are made to order.
 (2) Special nuts are also designed and manufactured upon request.

Tightening torque

Recommended Torque

Dimension	Size	Torque	Holder size
AR 8	$\varnothing 0.5 - * < \varnothing 3.5$	7	ECH 5
	$\varnothing 3.5 - \varnothing 5.0$	10	
AR11	$\varnothing 1.0 - < \varnothing 3.5$	15	ECH 7
	$\varnothing 3.5 - \varnothing 7.0$	20	
AR16	$\varnothing 1.0 - < \varnothing 3.5$	30	ECH10
	$\varnothing 3.5 - \varnothing 10.0$	40	
AR20	$\varnothing 1.0 - < \varnothing 3.5$	40	ECH13
	$\varnothing 3.5 - \varnothing 14.0$	60	
AR25	$\varnothing 1.0 - < \varnothing 3.5$	40	ECH16
	$\varnothing 3.5 - \varnothing 16.0$	60	
AR32	$\varnothing 3.0 - \varnothing 20.0$	70	ECH20
AR40	$\varnothing 4.0 - \varnothing 26.0$	80	ECH26
AR50	$\varnothing 6.0 - \varnothing 34.0$	140	ECH34

■ Caution

- (1) Excessive tightening may cause damage to the holder body, nut, or collet.
- (2) The recommended torques listed in the table above are only for reference. They do not guarantee machining accuracy.
- (3) Use of a torque wrench is recommended for tightening nuts.

* < = less than

$\varnothing 0.5 - < \varnothing 3.5$ is $\varnothing 0.5$ to less than $\varnothing 3.5$.

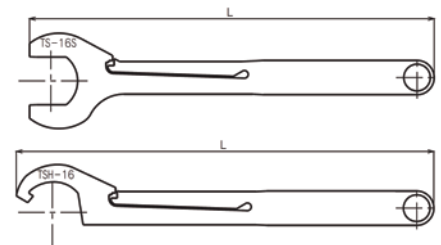
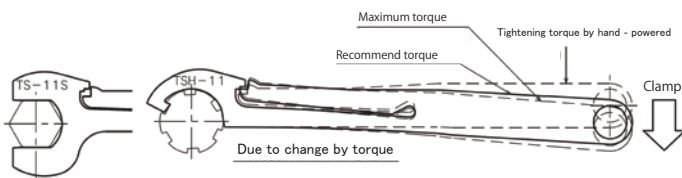
Torque Spanner PAT

Stable accuracy with torque control for nut tightening

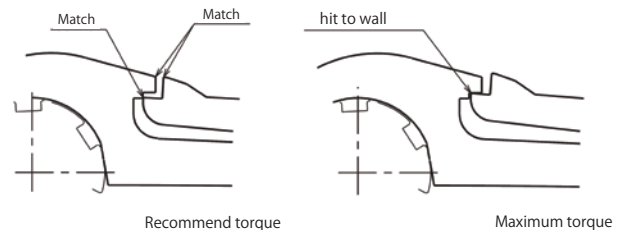
exclusively for NA Nut



Due to change by torque



Recommended torque can be visually confirmed.
You can prevent tighten up too much



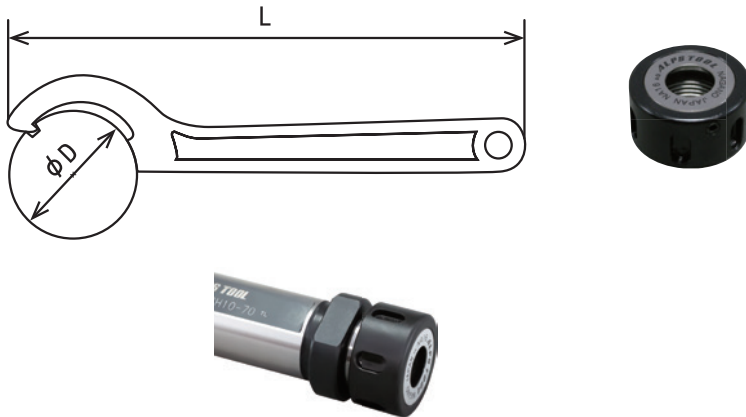
CODE	Nut Code	Recommend Torque	L(mm)	Auxiliary pipe Code
TSH-11	NA11	20 (15)	180	
	NA11R			
	NA11F			
TS-11S	NA11S	20 (15)	170	
	NA11SR			
TS-11MR	NA11MR			
TSH-16	NA16	40 (30)	222	TSP-16
	NA16R			
	NA16F			
TS-16S	NA16S	40 (30)	215	
	NA16SR			
TS-16MR	NA16MR			

■ Remarks

- (1) Please use between the recommend torque and maximum torque.
- (2) When the collet size is 3.5mm smaller, please use a torque that was represented to ().
- (3) When use the auxiliary pipe, tightening torque decreases, please check the instruction manual before use.

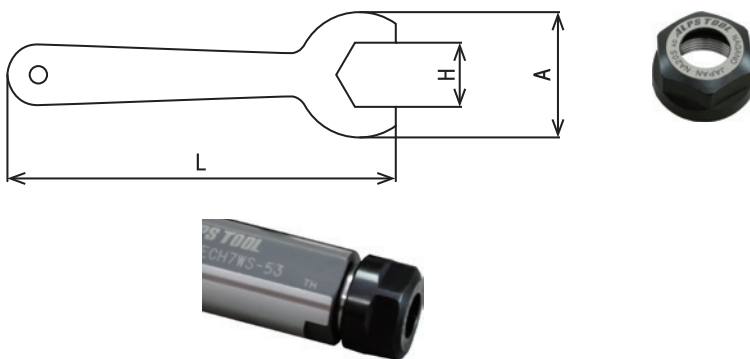
Various series of Wrench and spanner

Hook Wrench for NA Nut



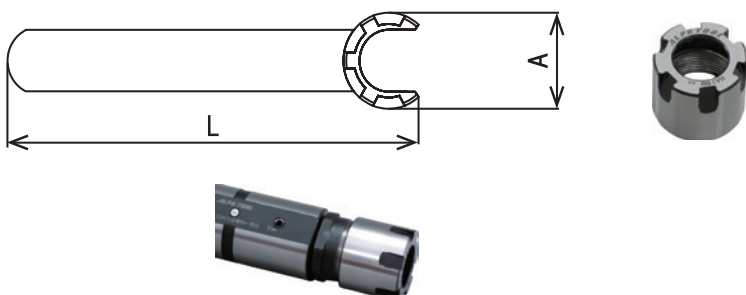
CODE	Nut Code	φ D	L
FK-3	NA11	23	108
	NA11R		
	NA11F		
FK-4	NA16	32	136
	NA16R	30	
	NA16F		
FK-5	NA20	36	160
	NA20R	35	
	NA20F		
FK-6	NA25	43	173
	NA25R	42	
	NA25F		
	NA25S		
FK-8	NA32	51	208
	NA32R	50	
	NA32F		
	NA32S		
FK-9	NA40	63	232
FK-11	NA50	80	271

Spanner for NA S nut



CODE	Nut Code	H	A	L
SP-13	NA8S	13	40	140
SP-17A	NA11S	17	44	100
	NA11SR			
SP-25	NA16S	25	50	180
	NA16SR			
SP-30	NA20S	30	58	
	NA20SR			
SP-11	NA8MR	11	35	90
SP-15	NA11MR	15	50	150
SP-20	NA16MR	20	50	150

NA-M Wrench for NA M nut



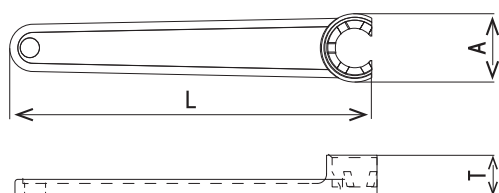
CODE	Nut Code	L	A
AE8M	NA 8 M	74	12.2
AE11M	NA11M	95	16.5
AE16M	NA16M	117	22.5
AE20M	NA20M	129	28.2



NA-M Wrench CS type

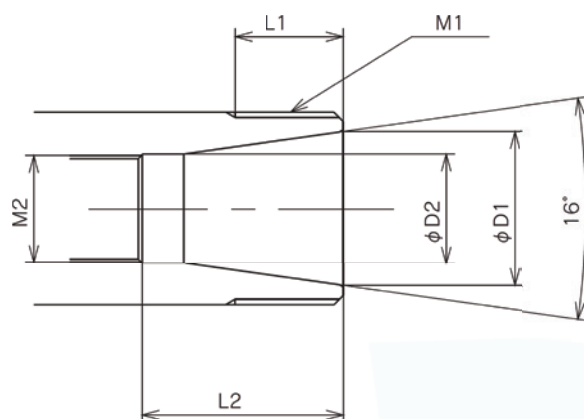
Grips nut securely and without rattle.

Can be placed over the outer circumference of the nut.



CODE	Nut Code	L	A	T
AE11M-CS	NA11M	110	20	12.5
AE16M-CS	NA16M	126	28	21.5
AE20M-CS	NA20M	138	35	20

Dimensions of Taper



■ Remarks

- (1) This is a reference standard when designing spindles, etc. Please contact us for detailed dimensions.
- (2) Taper gauge is also available.
- (3) The values are different from those shown in the table when M nuts are used.

CODE	D1	D2	M1	M2	min L1	min L2	Collet to be used
☐ -ECH 5S- ☐	8	5.2	M10 × 0.75	-	7.5	-	AR 8
☐ -ECH 7 - ☐	11	8.2	M14 × 0.75	M 8 × 1.0	8	15	AR11
☐ -ECH10 - ☐	16	11.2	M22 × 1.5	M11 × 1.0	13	23	AR16
☐ -ECH13 - ☐	20	14.2	M25 × 1.5	M14 × 1.0	14	26	AR20
☐ -ECH16 - ☐	25	18.3	M32 × 1.5	M18 × 1.5	15	30	AR25
☐ -ECH20 - ☐	32	24.3	M40 × 1.5	M24 × 1.5	16	34	AR32
☐ -ECH26 - ☐	40	30.5	M50 × 1.5	M28 × 1.5	16	38	AR40
☐ -ECH34 - ☐	50	38	M64 × 2.0	-	24	-	AR50



That's the way!

www.alpstool.com

ALPS TOOL CO.,LTD.

HQ, Factory 1 10070 Sakaki, Sakaki-machi, Hanishina-gun, Nagano-ken, 389-0601 Japan

Factory 2 10030 Sakaki, Sakaki-machi, Hanishina-gun, Nagano-ken, 389-0601 Japan

Factory 3 102-8 Nakanojo, Sakaki-machi, Hanishina-gun, Nagano-ken, 389-0602 Japan

TEL +81-268-82-2511 FAX +81-268-82-7368

TEL +81-268-82-4811 FAX +81-268-82-8741

TEL +81-268-82-7911 FAX +81-268-82-7919

ALPS TOOL(Dalian)CO.,LTD.

Dalian Factory No. 7 Yuexiang Street, Wanli Sub-district,
Dalian Economic and Technical Development Zone, Dalian Liaoning China

TEL +86-411-87935969 FAX +86-411-87935255

ALPS TOOL(THAILAND)CO.,LTD.

Ayutthaya Factory Hi-Tech Industrial Estate, 144 Moo 1, Tambol Banlen, Amphur Bang Pa-In, Ayutthaya 13160 Thailand

Suranaree Factory 567 Moo6 Tambol Nongraviang Amphur Muang Nakhon Ratchasima 30000 Thailand

TEL +66-35-314-071 FAX +66-35-314-075

TEL +66-44-009-838 FAX +66-44-009-839

ALPS TOOL USA, INC. 5420 Newport Drive, Unit #51 Rolling Meadows, IL 60008 USA

TEL +1-847-342-0300 FAX +1-847-342-6355

ALPS TOOL Europe GmbH Vogelsangstr. 8, 73760 Ostfildern GERMANY

TEL +49-711-34801-139 FAX +49-711-34801-140

ALPSTOOL