

ALPSTOOL

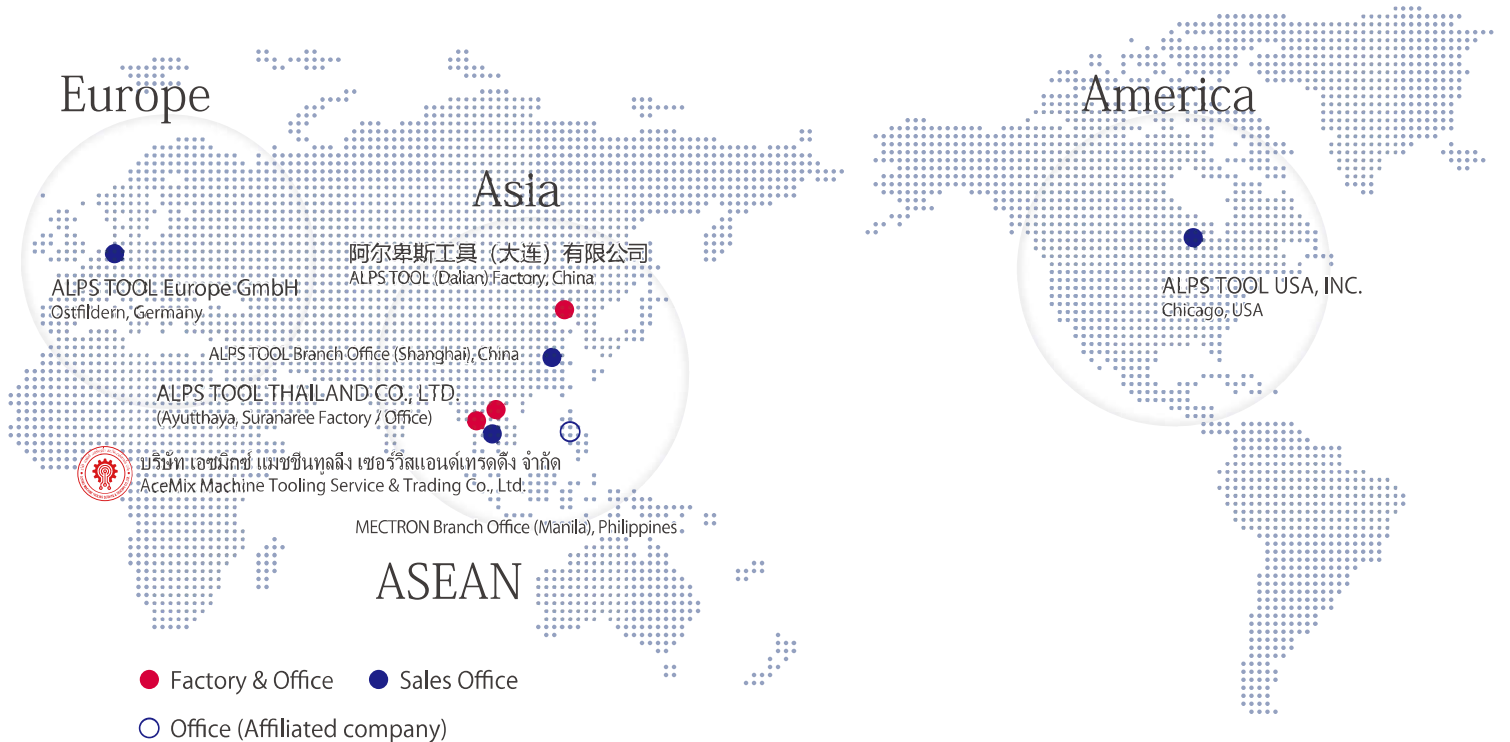
Tooling for CNC Lathe

NICE MILL SERIES

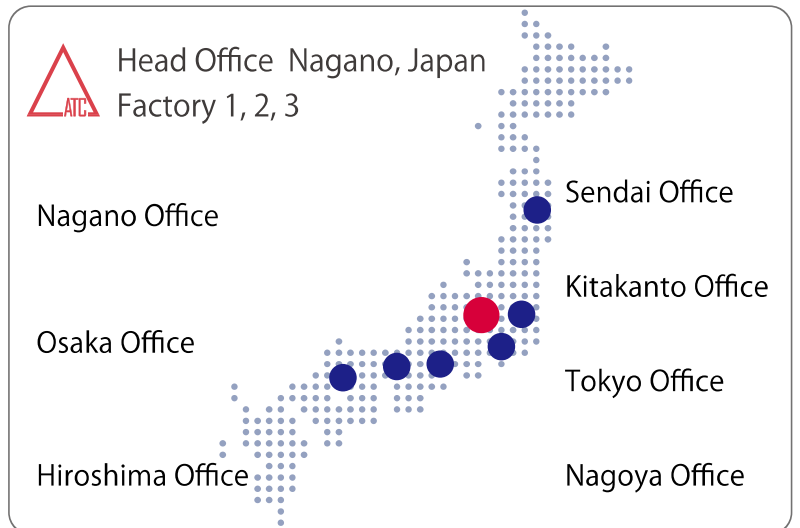
PRODUCT CATALOG



ALPS TOOL Global Network

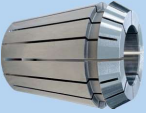
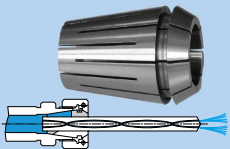

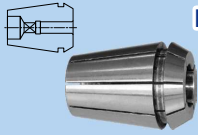
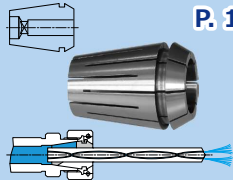















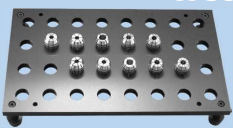





Japan



www.alpstool.com

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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



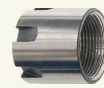
AR Collet



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.

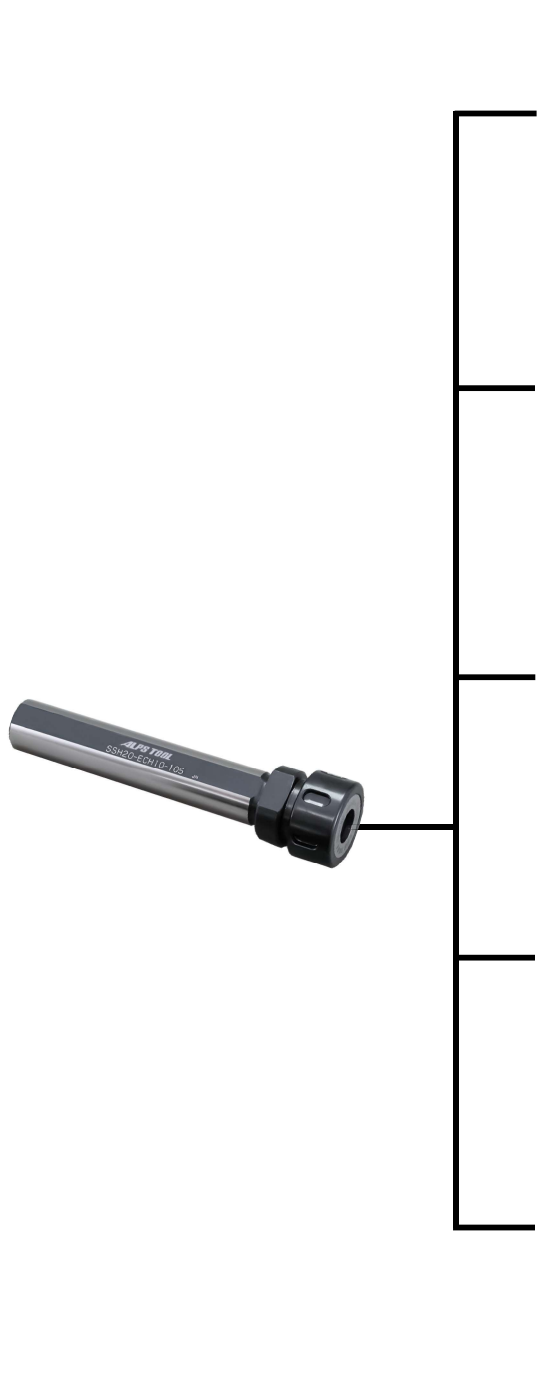



Nuts

- 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







AR Collet Standard
P. 8
Most standard collet chucks.
AR8-AR50 are available.




AR Coolant Thru Collet OH type
P. 10
for Coolant thru tools.
Liquid-tight sealing slits.



AR Coolant Thru Collet C type
P. 12
Effective Coolant supply from the bore grooves to the cutting edge.



AR Tap Collet GB type
P. 14
Collet with a square hole machined in the rear.



AR Coolant Thru Tap Collet GH type
P. 15
for Coolant thru Taps.

Grade of AR (ER) Collet

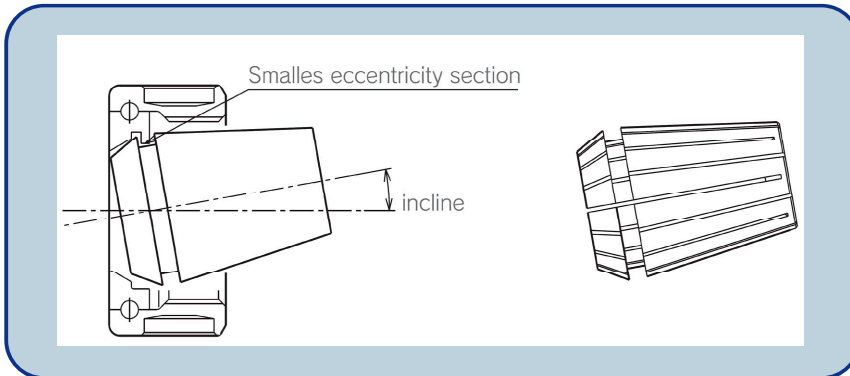
Class	Grade				
	AR	AR/OH	AR/C	AR/GB	AR/GH
AAA	○ *1	-	-	-	-
AA	○	○	○	-	-
A	○	○	○	-	-

*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 (μ m)		
			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.

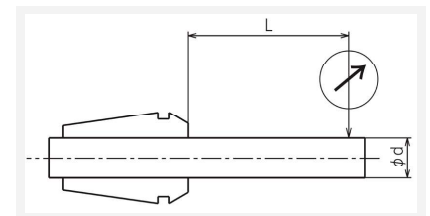
Please check it out
our YouTube Channel



● Accuracy by grade

AAA **3 μ m**
AA **5 μ m**
A **8 μ m**

● 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

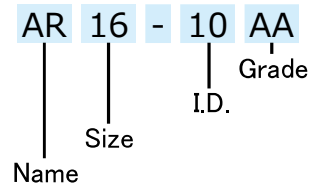
Standard type



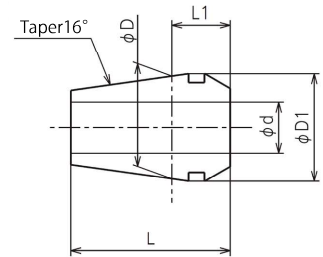
Grade

AAA	3 μm
AA	5 μm
A	8 μm

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

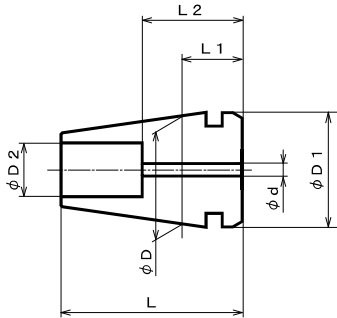


Fig. 2

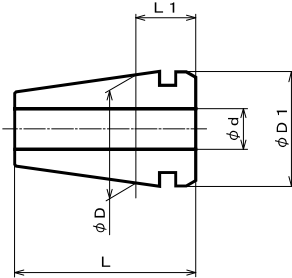


Fig. 3

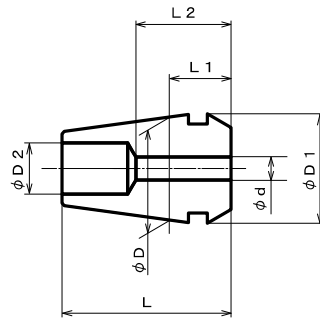


Fig. 4

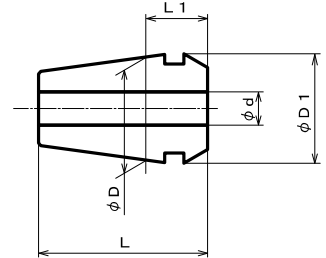


Table 1

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	-	4
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			
AR20-3	3.0 - 2.5			
AR20-3.175	3.175	19	-	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	20	-	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 LD. 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	-	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	-	4
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	-	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	-	4
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	26	-	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	28	-	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			
AR40-5	5.0 - 4.5			
AR40-6	6.0 - 5.0			
AR40-7	7.0 - 6.0			
AR40-8	8.0 - 7.0	27	-	4
AR40-9	9.0 - 8.0			
AR40-10	10.0 - 9.0			
AR40-11	11.0 - 10.0			
AR40-12	12.0 - 11.0			
AR40-13	13.0 - 12.0	28	-	4
AR40-14	14.0 - 13.0			
AR40-15	15.0 - 14.0			
AR40-16	16.0 - 15.0			
AR40-17	17.0 - 16.0			
AR40-18	18.0 - 17.0	30	-	4
AR40-19	19.0 - 18.0			
AR40-20	20.0 - 19.0			
AR40-21	21.0 - 20.0			
AR40-22	22.0 - 21.0			
AR40-23	23.0 - 22.0	-	-	4
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	28	-	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	31	-	4
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	31	-	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

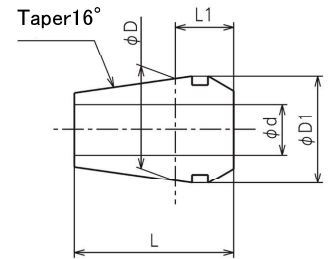
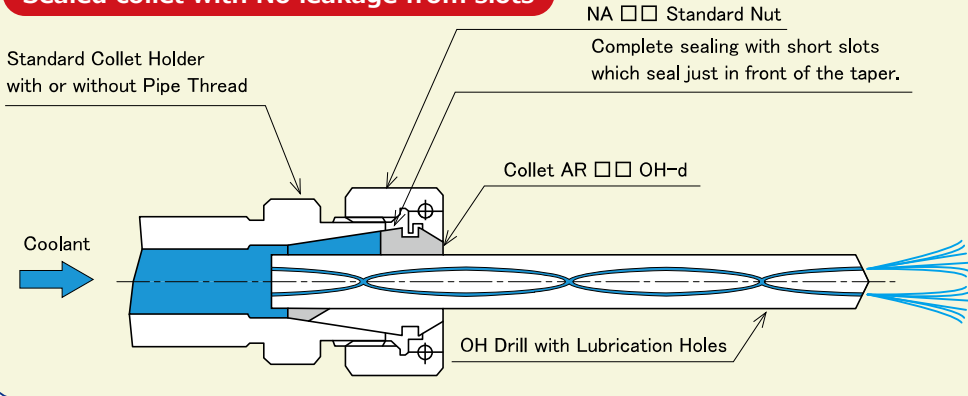
AA **5 μm**

A **8 μm**

Form explanation

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

Sealed collet with No leakage from slots



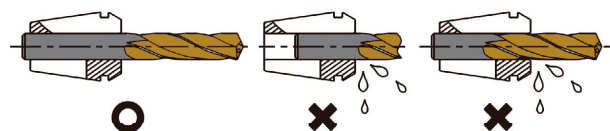
CODE	φ d		φ D	φ D1	L	L1	Please refer to P11
	Range	Shrink range					
AR11 OH	2 - 7	0.1	11	11.5	18	6.5	Table 1
AR16 OH	2 - 5.9		16	17	27	10	Table 2
AR20 OH	6 - 10	0.5	20	21	31	11	Table 3
	3 - 5.9	0.1					
AR25 OH	6 - 13	0.5	25	26	35	11.5	Table 4
	3 - 5.9	0.1					
AR32 OH	8 - 12	0.5	32	33	40	12.5	Table 5
	3 - 7.9						
AR40 OH	10 - 26	0.5	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 φ d.
- (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

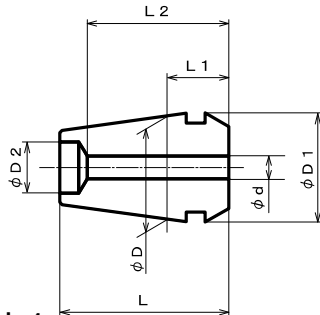


Fig. 6

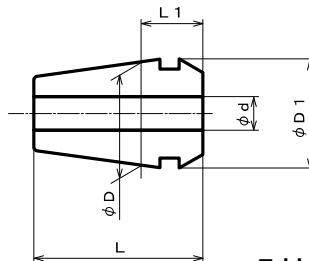


Table 1

AR11 OH				
L1=6.5, phi D=11, phi D1=11.5, L=18				
CODE	O.D. range	L2	phi 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, phi D=16, phi D1=17, L=27				
CODE	O.D. range	L2	phi 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, phi D=20, phi D1=21, L=31				
CODE	O.D. range	L2	phi 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	25	-	6
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			
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			

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Table 4

AR25 OH				
L1=11.5, phi D=25, phi D1=26, L=35				
CODE	O.D. range	L2	phi 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	-	6
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 - 1.5			
AR25OH-12.5	12.5 - 12.0			
AR25OH-13	13.0 - 12.5			
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, phi D=32, phi D1=33, L=40								
CODE	O.D. range	L2	phi 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	-	6				
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	-	6				
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	33			-	6		
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							
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, phi D=40, phi D1=41, L=46								
CODE	O.D. range	L2	phi 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	37	-	6				
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	38			-	6		
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							
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, phi D=50, phi D1=52, L=60								
CODE	O.D. range	L2	phi 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							
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	50	-	6				
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	51			-	6		
AR50OH-23.5	23.5 - 23.0							
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 **5 μm**

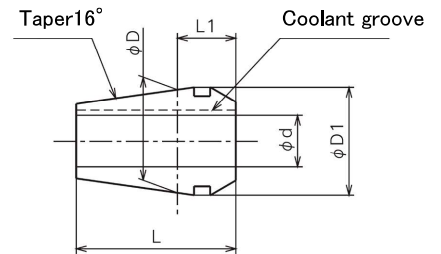
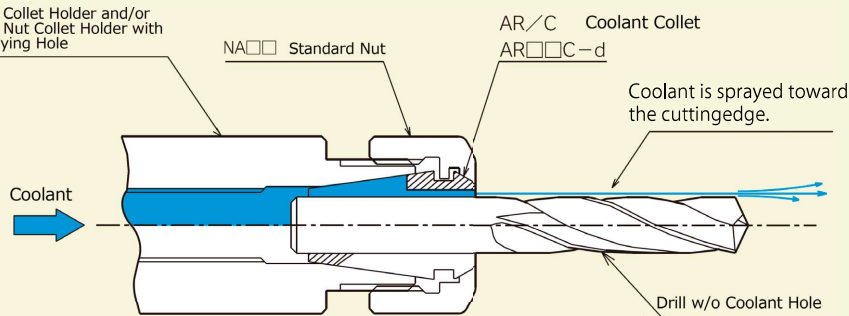
A **8 μm**

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



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
	3 - 5.9						
AR16C	6 - 10	0.5	16	17	27	10	Table 2
	5 - 5.9						
AR20C	6 - 13	0.1	20	21	31	11	Table 3
	6 - 16						
AR25C	8 - 20	0.5	25	26	35	11.5	Table 4
	8 - 20						
AR32C			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

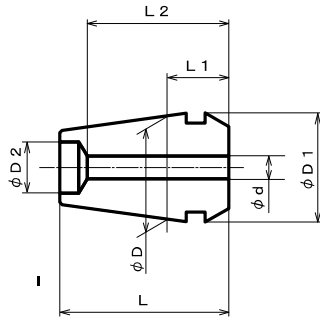


Fig. 6

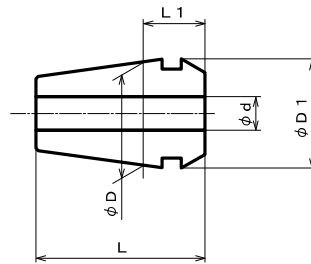


Table 1 AR11C				
L1=6.5, phi D=11, phi D1=11.5, L=18				
CODE	O.D. range	L2	phi D2	Fig.
AR11C-3	3.0 - 2.9	-	-	6
AR11C-3.5	3.5 - 3.4			
AR11C-4	4.0 - 3.9			
AR11C-4.5	4.5 - 4.4			
AR11C-5	5.0 - 4.9			
AR11C-5.5	5.5 - 5.4			
AR11C-6	6.0 - 5.9			
AR11C-6.5	6.5 - 6.4			
AR11C-7	7.0 - 6.9			

Table 2 AR16C				
L1=10, phi D=16, phi D1=17, L=27				
CODE	O.D. range	L2	phi 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, phi D=20, phi D1=21, L=31				
CODE	O.D. range	L2	phi 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			
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	-	-	6
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, phi D=25, phi D1=26, L=35				
CODE	O.D. range	L2	phi 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			
AR25C-8.5	8.5 - 8.0	29	-	-
AR25C-9	9.0 - 8.5			
AR25C-9.5	9.5 - 9.0			
AR25C-10	10.0 - 9.5			
AR25C-10.5	10.5 - 10.0			
AR25C-11	11.0 - 10.5	-	-	6
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			
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, phi D=32, phi D1=33, L=40				
CODE	O.D. range	L2	phi D2	Fig.
AR32C-8	8.0 - 7.5	31	-	-
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			
AR32C-10.5	10.5 - 10.0	32	16	5
AR32C-11	11.0 - 10.5			
AR32C-11.5	11.5 - 11.0			
AR32C-12	12.0 - 11.5			
AR32C-12.5	12.5 - 12.0			
AR32C-13	13.0 - 12.5	33	-	-
AR32C-13.5	13.5 - 13.0			
AR32C-14	14.0 - 13.5			
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			
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			
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			

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AR Collet

Tap Collet GB type

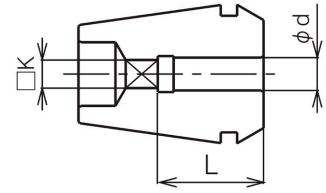
for JIS

GB type



Form explanation

AR 16 GB - M4
 Name Size Type Thread size



CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR16GB-M4	M4	(No.8U)	-	5	4	15
AR16GB-M5	M5	(No10U/12U)		5.5	4.5	
AR16GB-M6	M6	(1/4U)		6	4.5	
AR16GB-5/16U	-	5/16U		6.1	5	20
AR16GB-M8	M8	-	6.2	5		
AR16GB-M10	M10	(3/8U)	7	5.5		
AR16GB-7/16U	(M11)	7/16U	8	6		
AR16GB-PT1/8	-	-	PT1/8(1/16)	8	6	20
AR16GB-M12	M12	-	-	8.5	6.5	

CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR20GB-M4	M4	(No.8U)	-	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	5		
AR20GB-M10	M10	(3/8U)	7	5.5	25	
AR20GB-7/16U	(M11)	7/16U	8	6		
AR20GB-PT1/8	-	-	PT1/8(1/16)	8	6	20
AR20GB-M12	M12	-	-	8.5	6.5	
AR20GB-1/2U	-	1/2U	-	9	7	25

CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR25GB-M4	M4	(No.8U)	-	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	5		
AR25GB-M10	M10	(3/8U)	7	5.5	25	
AR25GB-7/16U	(M11)	7/16U	8	6		
AR25GB-PT1/8	-	-	PT1/8(1/16)	8	6	20
AR25GB-M12	M12	-	-	8.5	6.5	
AR25GB-1/2U	-	1/2U	-	9	7	25
AR25GB-M14	M14	(9/16U)	10.5	8	17	
AR25GB-PT1/4	-	-	PT1/4	11		9
AR25GB-5/8U	-	5/8U	-	12		9
AR25GB-M16	M16	-	-	12.5		10
AR25GB-PT3/8	-	-	PT3/8	14	11	18

CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR32GB-M4	M4	(No.8U)	-	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	5		
AR32GB-M10	M10	(3/8U)	7	5.5	25	
AR32GB-7/16U	(M11)	7/16U	8	6		
AR32GB-PT1/8	-	-	PT1/8(1/16)	8	6	20
AR32GB-M12	M12	-	-	8.5	6.5	
AR32GB-1/2U	-	1/2U	-	9	7	25
AR32GB-M14	M14	(9/16U)	10.5	8	17	
AR32GB-PT1/4	-	-	PT1/4	11		9
AR32GB-5/8U	-	5/8U	-	12		9
AR32GB-M16	M16	-	-	12.5		10
AR32GB-PT3/8	-	-	PT3/8	14	11	18
AR32GB-M18	M18	(3/4U)	15	12	28	
AR32GB-M20	M20	-	-	15		12
AR32GB-M22	M22	-	-	17	13	28

CODE	Tap Size			d	K	L
	Metric thread	Unified 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	
AR40GB-M12	M12	-		-	8.5	6.5
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	9	
AR40GB-M16	M16	-	12.5	10	25	
AR40GB-PT3/8	-	-	PT3/8	14		11
AR40GB-M18	M18	(3/4U)	15	12	28	
AR40GB-M20	M20	-	-	15		12
AR40GB-M22	M22	(7/8U)	17	13	31	
AR40GB-PT1/2	-	-	PT1/2	18		14
AR40GB-M24	M24	-	19	15	31	
AR40GB-M27	M27	(1U)	20	15		

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	
AR50GB-M12	M12	-		-	8.5	6.5
AR50GB-1/2U	-	1/2U	-	9	7	25
AR50GB-M14	M14	(9/16U)	10.5	8		
AR50GB-PT1/4	-	-	PT1/4	11	9	17
AR50GB-5/8U	-	5/8U	-	12	9	
AR50GB-M16	M16	-	12.5	10	25	
AR50GB-PT3/8	-	-	PT3/8	14		11
AR50GB-M18	M18	(3/4U)	15	12	28	
AR50GB-M20	M20	-	-	15		12
AR50GB-M22	M22	(7/8U)	17	13	35	
AR50GB-PT1/2	-	-	PT1/2	18		14
AR50GB-M24	M24	-	19	15	35	
AR50GB-M27	M27	(1U)	20	15		
AR50GB-M28	M28	-	21	17	35	

AR Collet

Tap Collet GH type

for JIS

GH type

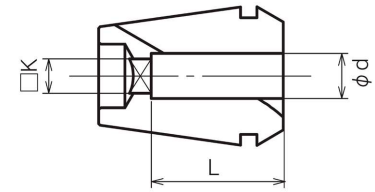
Coolant Thru

20MPa Available



Form explanation

AR 16 GH - M5
 Name Size Type Thread size



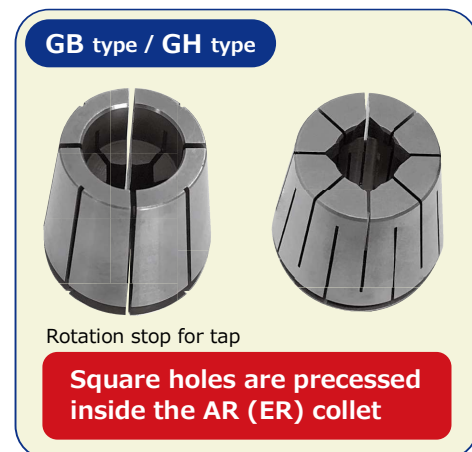
AR16GH						
CODE	Tap Size			d	K	L
	Metric thread	Unified screw thread	Pipe thread			
AR16GH-M5	M5	-	-	5.5	4.5	22
AR16GH-M6	M6	(1/4U)	-	6	4.5	
AR16GH-5/16U	-	5/16U	-	6.1	5	
AR16GH-M8	M8	-	-	6.2		
AR16GH-M10	M10	(3/8U)	-	7	5.5	
AR16GH-7/16U	(M11)	7/16U	-	8	6	
AR16GH-PT1/8	-	-	PT1/8(1/16)			
AR16GH-M12	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		
AR20GH-M10	M10	(3/8U)	-	7	5.5	
AR20GH-7/16U	(M11)	7/16U	-	8	6	
AR20GH-PT1/8	-	-	PT1/8(1/16)			
AR20GH-M12	M12	-	-	8.5	6.5	
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		
AR25GH-M10	M10	(3/8U)	-	7	5.5	
AR25GH-7/16U	(M11)	7/16U	-	8	6	
AR25GH-PT1/8	-	-	PT1/8(1/16)			
AR25GH-M12	M12	-	-	8.5	6.5	
AR25GH-1/2U	-	1/2U	-	9	7	
AR25GH-M14	M14	(9/16U)	-	10.5	8	30
AR25GH-PT1/4	-	-	PT1/4	11	9	
AR25GH-5/8U	-	5/8U	-	12		
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		
AR32GH-M10	M10	(3/8U)	-	7	5.5	
AR32GH-7/16U	(M11)	7/16U	-	8	6	
AR32GH-PT1/8	-	-	PT1/8(1/16)			
AR32GH-M12	M12	-	-	8.5	6.5	
AR32GH-1/2U	-	1/2U	-	9	7	
AR32GH-M14	M14	(9/16U)	-	10.5	8	30
AR32GH-PT1/4	-	-	PT1/4	11	9	
AR32GH-5/8U	-	5/8U	-	12		
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	

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)			
AR40GH-M12	M12	-	-	8.5	6.5	
AR40GH-1/2U	-	1/2U	-	9	7	
AR40GH-M14	M14	(9/16U)	-	10.5	8	
AR40GH-PT1/4	-	-	PT1/4	11	9	
AR40GH-5/8U	-	5/8U	-	12	9	
AR40GH-M16	M16	-	-	12.5	10	35
AR40GH-PT3/8	-	-	PT3/8	14	11	
AR40GH-M18	M18	(3/4U)	-	15	12	
AR40GH-M20	M20	-	-	17	13	
AR40GH-M22	M22	(7/8U)	-	17	13	
AR40GH-PT1/2	-	-	PT1/2	18	14	
AR40GH-M24	M24	-	-	19	15	
AR40GH-M27	M27	(1U)	-	20	15	



■ 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

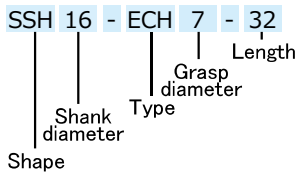


Fig.1

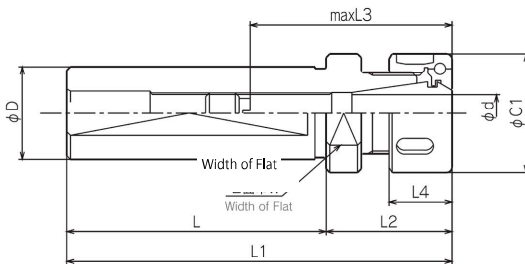
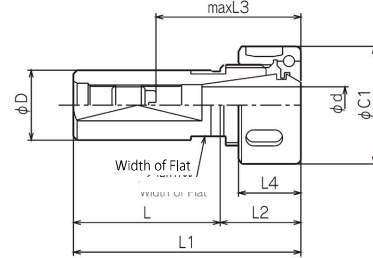
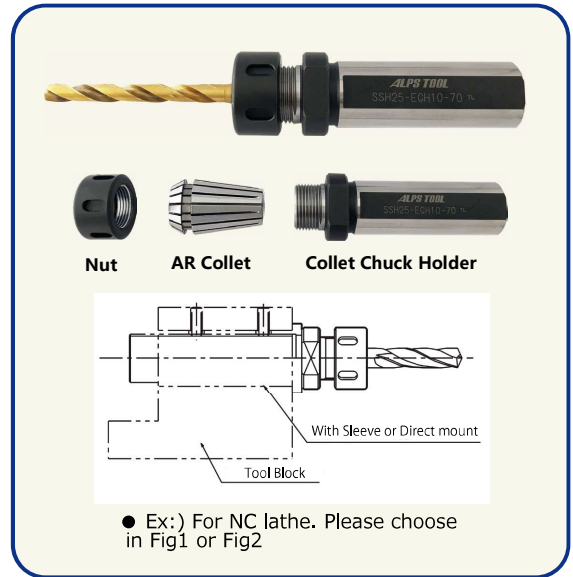


Fig.2



with Flange



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	
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	24	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	1			105	140	35	80	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	
-ECH13- 70	0.5 - 13			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
-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	40	1	80	116	36	75	NA20	36	19	32	ECH13-05	AR20-d	FK-5	
-ECH16- 80	0.5 - 16				120	40	80	NA25	43	20	36	ECH16-05	AR25-d	FK-6	
-ECH20- 80	128				48	100	NA32	51	23	46	ECH20-05	AR32-d	FK-8		
SSH40 -ECH20- 80	2 - 20				110	158	NA32	51	23	46	ECH20-05	AR32-d	FK-8		
-ECH20-110	110	158	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

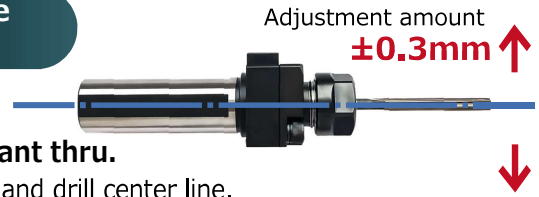
Y axis

for Turret lathe

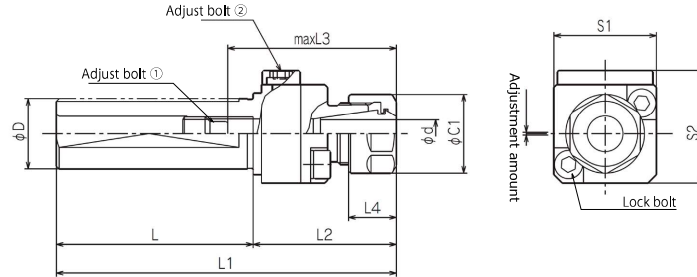
Adjustable cutting edge
for Y axis positioning



Form explanation
SBH 20 - ECH 7 M - 70
Shank diameter | Type | Grasp diameter | Function | Length



*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 2 -ECH7M-70		20		121	51	60	36.5	40	NA16S	17	28	2S10030	AR16-d	SP-25	H5	H5
-ECH10-70	0.5 - 10	25														
SBH 25 -ECH10-70				0.5 - 16	25	125	55	70	47	49	NA25S	20	42	2S12035	AR25-d	FK-6
-ECH16-70	0.5 - 16	25	125													

*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

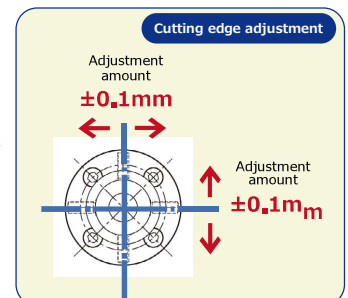
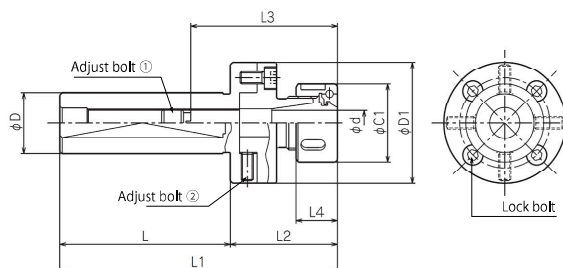


Form explanation
SAH 20 - ECH 10 - 70
Shank diameter | Type | Grasp diameter | Length

Cutting edge position adjustment

Adjustable for Y-X axis

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



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				114	44	60	50	NA16	17	32	ECH10-05	AR16-d	FK-4		
SAH25-ECH10-70	0.5 - 10	25												124	54
-ECH16-70				0.5 - 16	25	119	49	70	55	NA20	19	36	ECH13-05		
SAH32-ECH13-70	0.5 - 13	32	126											56	72
-ECH20-70				2 - 20	32	126	56	72	NA32	23	51	ECH20-05	AR32-d		

*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)



Nut AR Collet Collet Chuck Holder

Fig.1

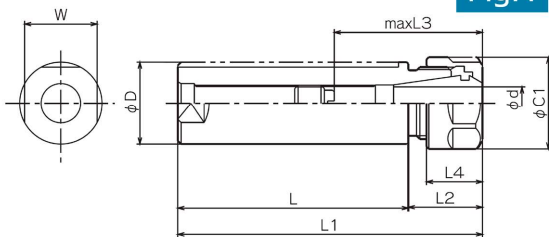


Fig.2

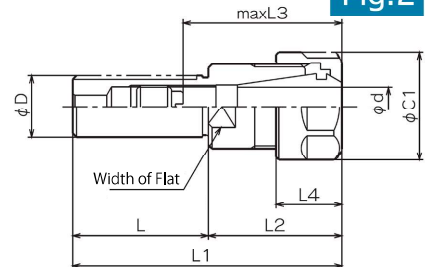


Fig.3

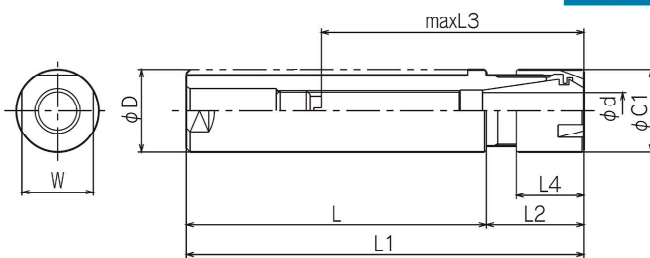
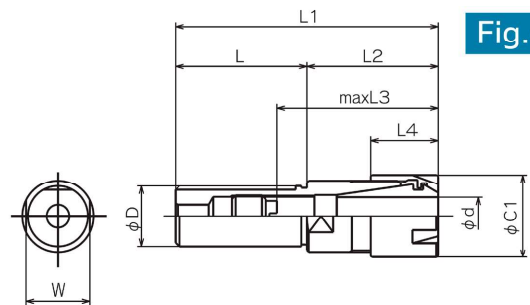


Fig.4



NA-M Type

Mini Nut



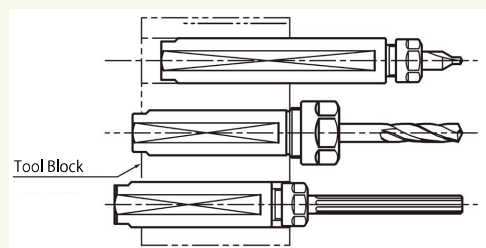
NA-S Type

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)

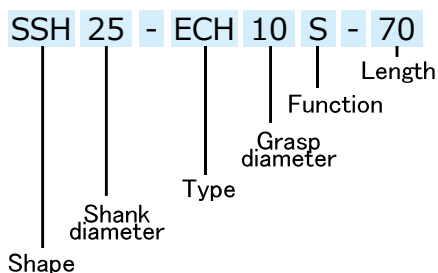
Please refer to P32 for detail of Nut

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				35	51		35	NA11S	19	11.5																	
-ECH 7S - 35	0.5 - 7	16	4	70	86	35	55	NA11M	16	12	14	ECH 7-05	AR11-d	SP-17A													
-ECH 7S - 70				35	51		35	NA16S	28	17				19	ECH10-05	AR16-d	AE11M										
-ECH 7MS- 35				70	86		55		NA16M	22							18	AE16M									
-ECH 7MS- 70				35	70		70			105							105		AE16M-CS								
-ECH10S - 35	0.5 - 10	20	2	70	105	35	43	NA16S	28	17	17	ECH10-05	AR16-d	SP-25													
-ECH10S - 70				35	70		70	NA16M	22	18				AE16M													
-ECH10MS- 35				70	105		70		NA11S	19					11.5	SP-17A											
-ECH10MS- 70				40	56		40			22					ECH13-05		AR20-d	SP-30									
SSH20 -ECH 7S - 40	0.5 - 7	20	1	70	86	16	55	NA11S	19		11.5	17	ECH 7-05	AR11-d		SP-17A											
-ECH 7S - 70				105	121	70	NA16S	28	17		ECH10-05								AR16-d	SP-25							
-ECH 7S -105				40	62	45		NA20S	34												19	22	-	AR20-d	SP-30		
-ECH10S - 40	0.5 - 10	20	1	70	92	22	70		NA16S	28	17	ECH10-05	AR16-d	SP-25													
-ECH10S - 70				105	127	80	55 ※ (5)		75	NA20S	34				19	22	-	AR20-d	SP-30								
-ECH10S -105	0.5 - 13	20	2	40	70	30		55 ※ (5)			NA20S	34	19	22	-					AR20-d	SP-30						
-ECH13S - 40				70	100	75	NA11M	16	12	19	ECH 7-05	AR11-d	AE11M														
-ECH13S - 70	0.5 - 7	22	3	40	56.5	16.5		40	NA11M					16	12	19	ECH 7-05	AR11-d	AE11M								
-ECH7MS - 70				70	86.5		55	NA16M	22	18	ECH10-05	AR16-d	AE16M														
-ECH7MS - 105				105	121.5		70		NA16M	22				18	AE16M												
-ECH7MS - 120				120	136.5		52			25				25						1	23	70	NA16S	28	17	22	ECH10-05
SSH25 -ECH 7S - 62	0.5 - 7	25	1	38	64	26	70	NA16M	22		18	19	ECH10-05		AR16-d	AE16M											
-ECH7MS - 70				70	96		80	NA20S	34		19						22	ECH13-05	AR20-d								
-ECH7MS - 105	0.5 - 10	25	1	80	106	23	80		NA16M		22	18	19		ECH10-05	AR16-d											
-ECH7MS - 120				105	131		52		NA16S	28	17	22		ECH10-05						AR16-d	SP-25						
-ECH10MS- 38				70	96		70	NA20S		34	19						27	ECH16-05	AR25-d			FK-6					
-ECH10MS- 70	40	63	45	25	25	1	23		70	NA16S	28	17	22	ECH10-05	AR16-d	SP-25											
-ECH10MS- 80	50	73	55																	NA20S	34		19	27	ECH13-05	AR20-d	SP-30
-ECH10MS- 80	70	93	70					NA20S									34	19	22		ECH10-05	AR16-d	SP-25				
-ECH10MS-105	105	128	80														25	25									
SSH25 -ECH 7S - 62	0.5 - 7	25	1	50	74	24	55	NA20S	34	19	19	ECH13-05	AR20-d	SP-30													
-ECH 7S - 70				70	94		75	NA25S	42	20					27	ECH16-05			AR25-d	FK-6							
-ECH 7S - 85	0.5 - 10	25	1	50	74	24	55		NA20S	34	19	19	ECH13-05	AR20-d							SP-30						
-ECH 7S -105				70	94		75		NA25S	42	20						27	ECH16-05				AR25-d	FK-6				
-ECH10S - 40				50	85		35	52		NA25S	42				20	27			ECH16-05	AR25-d				FK-6			
-ECH10S - 50	0.5 - 13	32	1	60	86	26	65	NA20S	34	19	27	ECH13-05	AR20-d	SP-30													
-ECH10S - 70				50	74		24	55	NA20S	34					19	27	ECH16-05	AR25-d	FK-6								
-ECH10S -105	0.5 - 16	32	2	70	94	24	75	NA20S	34	19	27	ECH13-05	AR20-d	SP-30													
SSH32 -ECH13S - 60				50	85		35	52	NA25S	42					20	27	ECH16-05	AR25-d	FK-6								
-ECH13S - 50	0.5 - 13	32	1	60	86	26	65	NA20S	34	19	27	ECH13-05	AR20-d	SP-30													
-ECH13S - 70				50	74		24	55	NA20S	34					19	27	ECH16-05	AR25-d	FK-6								
-ECH16S - 50	0.5 - 16	32	2	70	94	24	75	NA20S	34	19	27	ECH13-05	AR20-d	SP-30													
SSH32 -ECH13S - 60				50	85		35	52	NA25S	42					20	27	ECH16-05	AR25-d	FK-6								
-ECH16S - 60	0.5 - 16	32	1	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.

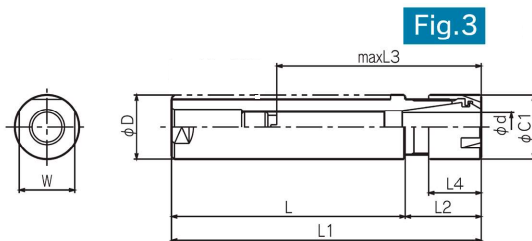
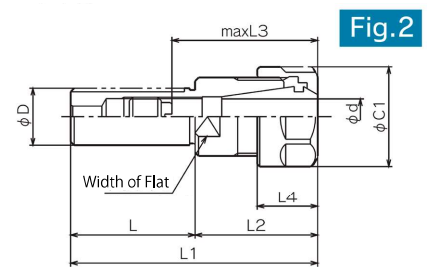
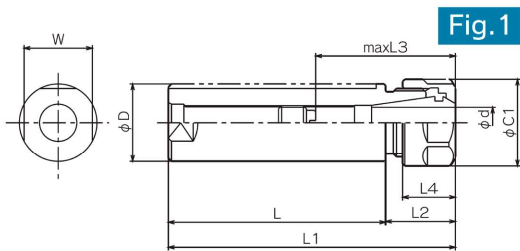
for Swiss type

for Gang type



Short Nose

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



NA-M Type

Mini Nut



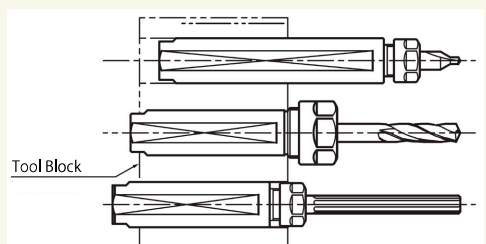
NA-S Type

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)

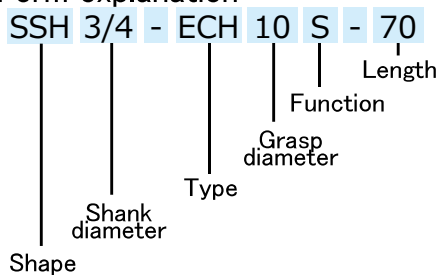
Please refer to P32 for detail of Nut

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
SSH3/4 -ECH 7S - 40	0.5 - 7	19.05	1	70	56	16	40	NA11S	19	11.5	17	ECH 7-05	AR11-d	SP-17A					
-ECH 7S - 70					86										55				
-ECH 7S - 105					105										70				
-ECH 7S - 120					120										136				
-ECH 7MS- 40					40										56.5	16.5	40		
-ECH 7MS- 70			70	86.5															
-ECH 7MS- 105			105	121.5															
-ECH 7MS- 120			120	136.5															
-ECH10S - 40			40	62	22	45													
-ECH10S - 70			70	92															
-ECH10S - 105	105	127																	
-ECH10S - 120	120	142																	
-ECH10MS- 40	40	65	25	45															
-ECH10MS- 70	70	95																	
-ECH10MS- 105	105	130																	
-ECH10MS- 120	120	145																	
-ECH13S - 40	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			0.5 - 10	25.4	1	70	93	23	70	NA16S				28	17	22	ECH10-05	AR16-d	SP-25
-ECH10S - 70																			
-ECH10S - 105	105	128									80								
-ECH10MS- 50	3	50			76	26	70	NA16M	22	18	AE16M AE16M-CS								
-ECH10MS- 70												70	96	80					
-ECH10MS- 105												105	131	80					
-ECH13S - 50	0.5 - 13	25.4	1	50	74	24	55	NA20S	34	19	22	ECH13-05	AR20-d	SP-30					
-ECH13S - 70															70	94	75		
-ECH16S - 50	0.5 - 16	25.4	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

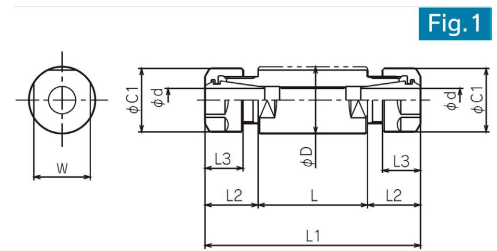
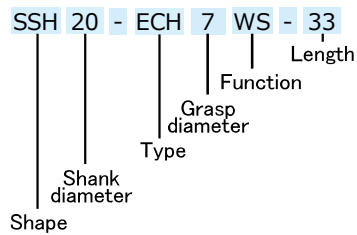


Fig. 1

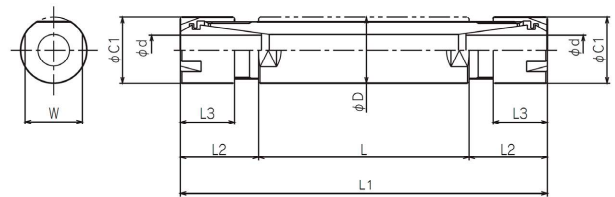


Fig. 2

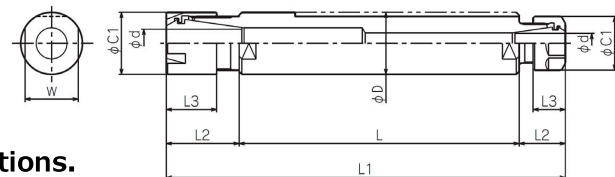


Fig. 3

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	φd	φD	Fig.	L	L1	L2	Nut size			W	Optional part				
							Code	$\varphi C1$	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				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		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	25	2		102	26	NA16M	22	18	-	AR16-d	AE16M AE16M-CS			
	1 - 13						27	NA20M	28	19		AR20-d	AE20M		
-ECH13/10WM- 50	0.5 - 10				50	103	26	NA16M	22	18	22	AR16-d	AE16M AE16M-CS		
SSH 1 -ECH10WM -70	0.5 - 10	25.4	2	70	122	26	NA16M	22	18	22	AR16-d	AE16M AE16M-CS			
-ECH10WM -105	0.5 - 10			105	157	27	NA20M	28	19		AR20-d	AE20M			
-ECH13/10WM- 70	1 - 13			70	123	26	NA16M	22	18		AR16-d	AE16M AE16M-CS			
	0.5 - 10						27	NA20M	28		19	AR20-d	AE20M		
-ECH13/10WM-105	0.5 - 13						105	158	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.

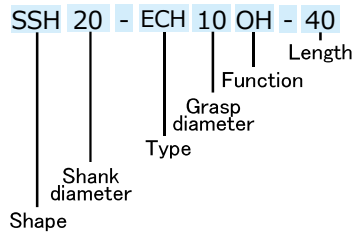
Coolant Thru Collet Holder with Pipe Thread Rc 1/8

mm specification

Inch specification

for Turret lathe

Form explanation



Collet to use

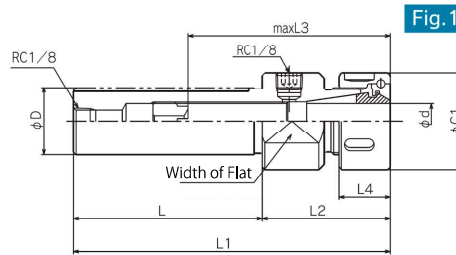


Fig.1

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 7OH-70	1.9-7	20	70	106	36	55	NA11	23	11.5	27	ECH 7OH-05	AR11OH-d	FK-3
-ECH10OH-40	1.9-10		40	85	45	45	NA16	32	17	30	ECH10OH-05	AR16OH-d	FK-4
-ECH10OH-70			70	115	70								
-ECH13OH-70	2.9-13	70	117.5	47.5	75	NA20	36	19	32	ECH13OH-05	AR20OH-d	FK-5	
SSH25 -ECH10OH-70	1.9-10	25	105	115	45	70	NA16	32	17	30	ECH10OH-05	AR16OH-d	FK-4
-ECH10OH-105	1.9-10		105	150	80								
-ECH13OH-70	2.9-13		70	117.5	47.5	75	NA20	36	19	32	ECH13OH-05	AR20OH-d	FK-5
-ECH16OH-70	2.9-16	70	121	51	80	NA25	43	20	36	ECH16OH-05	AR25OH-d	FK-6	
SSH32 -ECH13OH-75	2.9-13	32	75	122.5	47.5	75	NA20	36	19	32	ECH13OH-05	AR20OH-d	FK-5
-ECH16OH-75	2.9-16		75	126	51	NA25							
-ECH20OH-75	2.9-20		75	130	55	80	NA32	51	23	46	ECH20OH-05	AR32OH-d	FK-8
SSH3/4 -ECH10OH-105	1.9-10	19.05	105	150	45	80	NA16	32	17	30	ECH10OH-05	AR16OH-d	FK-4
SSH 1 -ECH10OH-105	25.4												

for Swiss type

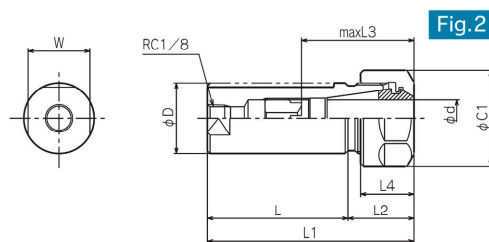


Fig.2



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		62	22	33								
-ECH10S OH- 70			70	92	55	NA16S	28	17					
SSH25-ECH10S OH- 40	1.9-10	25	40	63	23	33	NA20S	34	19	22	ECH10OH-05	AR16OH-d	SP-25
-ECH10S OH- 50	1.9-10		40	73	33								
-ECH13S OH- 50	2.9-13		50	73.5	23.5	40	NA20S	34	19	22	ECH13OH-05	AR20OH-d	SP-30
SSH32-ECH20S OH- 80	2.9-20	32	80	115	35	75	NA32S	50	23	36	ECH20OH-05	AR32OH-d	FK-7

■ Remarks

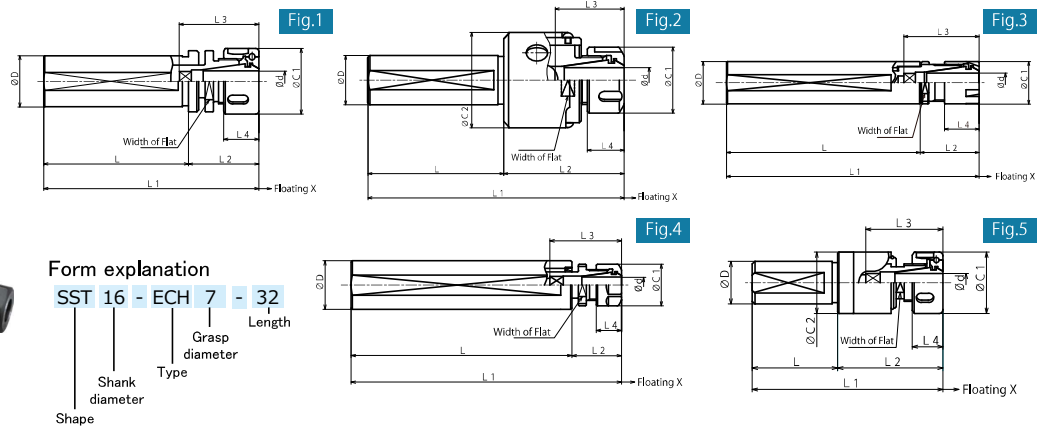
- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not included with Collet holder. If you need a wrench, please order separately.
- (3) Please contact us if you need a special shape.
- (4) ECH20S is different in nut shape.

Tap Holder

Tap Holder with Axial Float

Floating shaft absorbs thread pitch error

Single

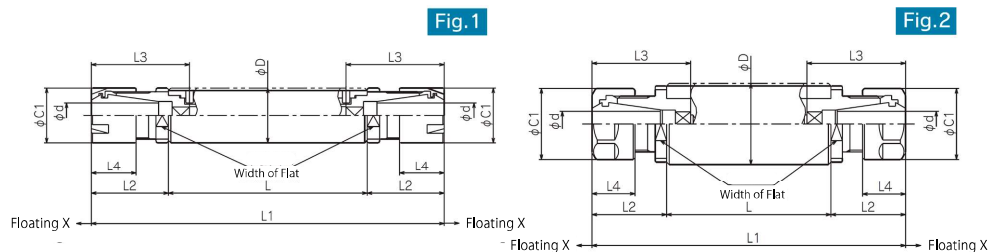


CODE	Tap size	φ D	Fig.	L	L1	L2	L3	Nut size			C2	W	Floating X	Optional part		
								Code	φ C1	L4				Collet	Nut Wrench	
SST16 -ECH 7 - 32	- M10	16	5	32	71.5	39.5	29	NA11	23	11.5	23	12	6	AR11-d	FK-3	
SST20 -ECH 7 - 40		20	1	40	66	26	29.5									
-ECH 7 - 70		20	4	70	97.5	27.5	32.5	NA11S	19	11.5		17				
-ECH 7S - 70		20	4	70	92.5	22.5	32.5									
SST22 -ECH10MS- 90	- M12	22	3	90	120.5	30.5	39	NA16M	22	18	-	19	10	AR16-d	AE16M AE16M-CS	
-ECH10MS-100				100	130.5											
-ECH 7S -100	- M10	19.05	4	100	122.5	22.5	32.5	NA11S	19	11.5		17				
SST25 -ECH 7 - 70				- M12	25	1	70	97.5	27.5	32.5				NA11	23	11.5
-ECH10 - 70	- M12	25	1	70	104.5	34.5	39	NA16	32	17	24	AR16-d	FK-4			
-ECT13 - 70	M10 - M16	25	2	70	132	62	40.5	NA20S	34	19	49	32	12	AR20-d	SP-30	
-ECT16 - 70	M14 - M20	32			80	145	65	45	NA25S	42	20	57	38	13	AR25-d	FK-6
SST32 -ECT13 - 80	M10 - M16	32	2	80	142	62	40.5	NA20S	34	19	49	32	12	AR20-d	SP-30	
-ECT16 - 80	M14 - M20	32			80	145	65	45	NA25S	42	20	57	38	13	AR25-d	FK-6
SST3/4-ECH 7S - 46	- M10	19.05	4	70	46	66	20	29.5	NA11S	19	11.5	-	12	5	AR11-d	SP-17A
-ECH 7S - 70					70	92.5	22.5	32.5								
-ECH 7S -105					105	127.5	22.5	32.5								
SST1 -ECH10 - 70	- M12	25.4	1	70	104.5	34.5	39	NA16	32	17	-	24	10	AR16-d	FK-4	

■ 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) ECH7 has 5.5 square hole and ECH10 has 6.5 square hole.
- (4) ECT13 and ECT16 grip tap square shank as shown on Fig.2.
- (5) When you use tap of PF type and PT type, please use long type tap.
- (6) The shape of ECH7S is short nose type. (It does not have a stopper to a sleeve.)
- (7) The tap holder cannot use the inner coolant.
- (8) When using a small diameter tap, the float force of the shaft may be weak.

Double



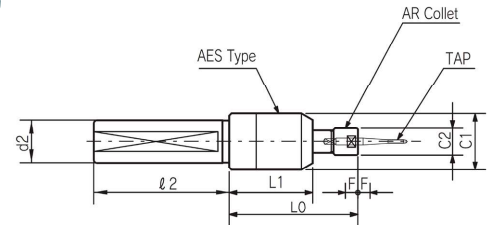
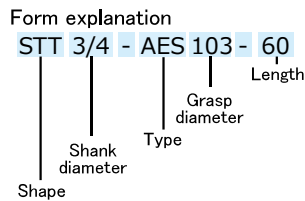
CODE	Tap size	φ D	Fig.	L	L1	L2	L3	Nut size			W	Floating X	Optional part	
								Code	φ C1	L4			Collet	Nut Wrench
SST22-ECH10WM- 50	M5 - M12	22	1	50	111	30.5	-	NA16M	22	18	19	6	AR16-d	AE16M AE16M-CS
SST22-ECH10WM- 80				80	142	31	38							
SST32-ECH10WS - 65				32	2	65	124							

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



- 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

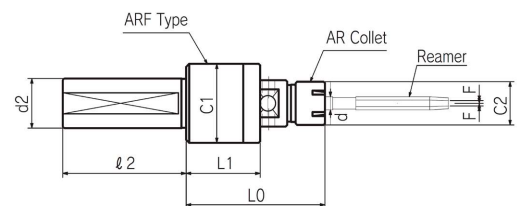
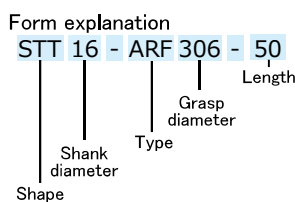
※ : AR16GB-M4 — M12 , AR16GH-M5 — M12

Tap Holder ARF type with Radial Float

Radial floating Tap Holde CNC Lathes



for Reamer processing



- 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										
STT 20-ARF306- 60	20										
STT 22-ARF306- 60	22	90	48	51	28	± 1.0	75	φ 5 - φ 11 (M4 - M14)	NA20M	AR20	AE20M AE20M-CS
STT 25-ARF306- 75	25										
STT 20-ARF414- 60	20										
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										
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.

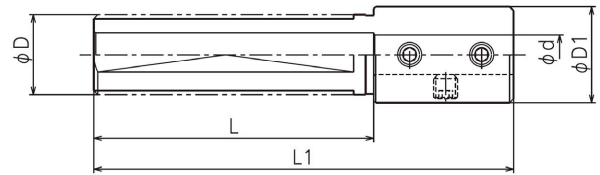
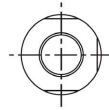


Fig.1

Form explanation

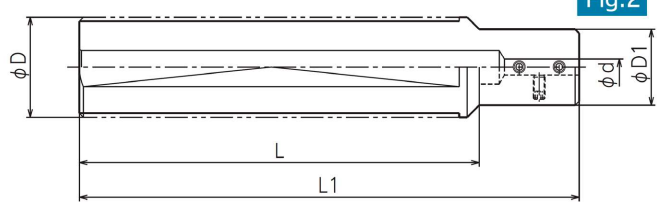
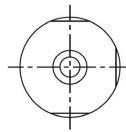
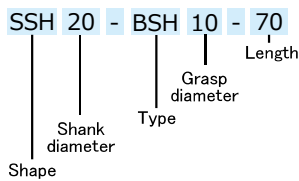


Fig.2

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				
- BSH 7- 70		7		24		
- BSH 8- 70		8				
SSH20 - BSH 4- 70	2	4	20	19	100	70
- BSH 5- 70		5				
- BSH 6- 70	1	6	20	24	105	70
- BSH 7- 70		7				
- BSH 8- 70		8				
- BSH10- 70		10				
- BSH12- 70		12				
SSH3/4 - BSH 4- 70	2	4	19.05	19	100	70
- BSH 5- 70		5				
- BSH 6- 70	1	6	19.05	24	105	70
- BSH 7- 70		7				
- BSH 8- 70		8				
- BSH10- 70		10				
- BSH12- 70		12				
SSH22 - BSH 4-100	2	4	22	19	125	100
- BSH 5-100		5				
- BSH 6-100	1	6	22	24	130	100
- BSH 7-100		7				
- BSH 8-100		8				
- BSH10-100		10				
- BSH12-100		12				
SSH25 - BSH 4-100	2	4	25	19	125	100
- BSH 5-100		5				
- BSH 6-100	1	6	25	24	130	100
- BSH 7-100		7				
- BSH 8-100		8				
- BSH10-100		10				
- BSH12-100		12				

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

~ Reference Listing ~

Hybrid Holder

Two head type

Two head type

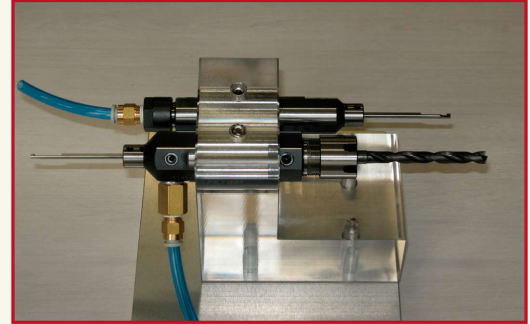
One Side

Boring Bar Holder

One Side

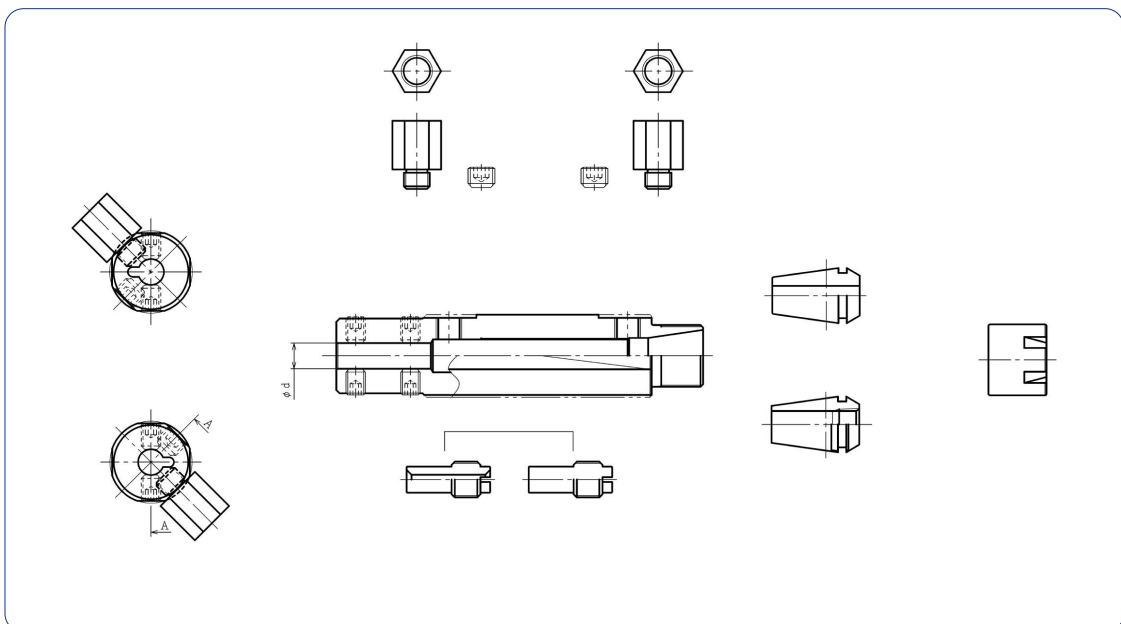
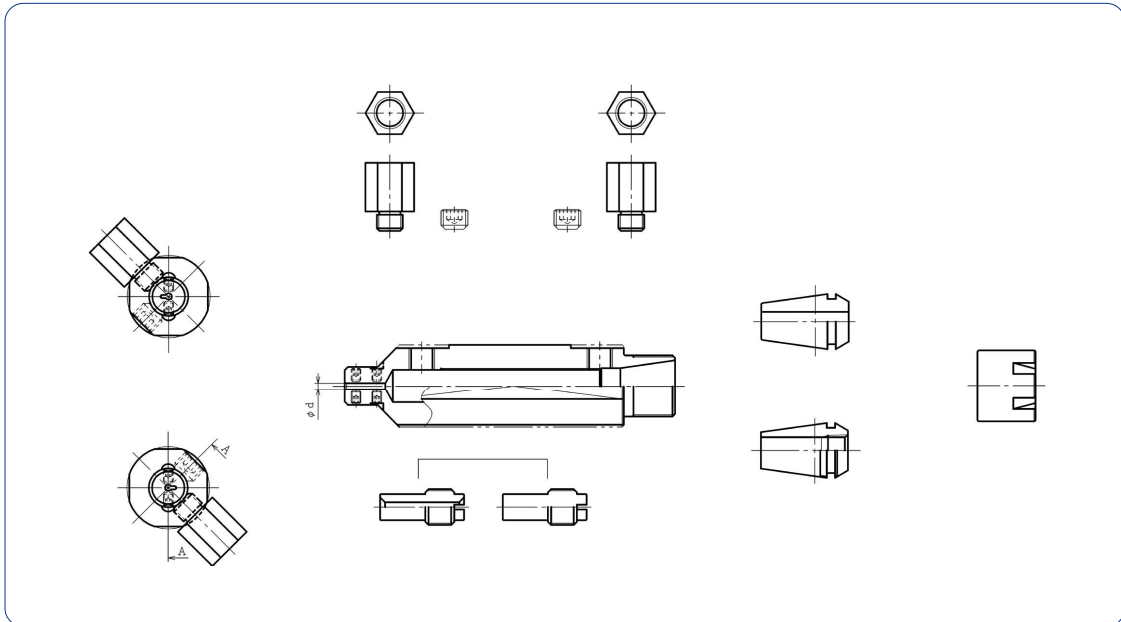
AR Collet Holder

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.

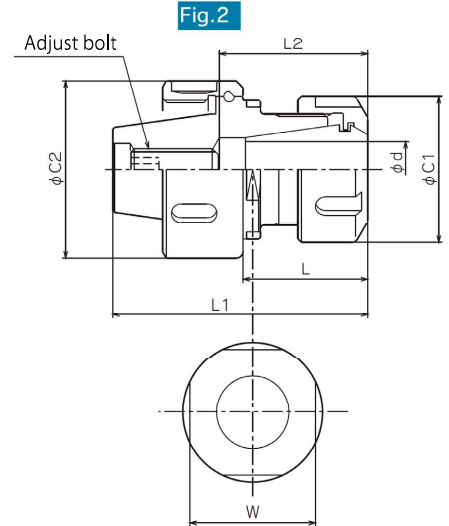
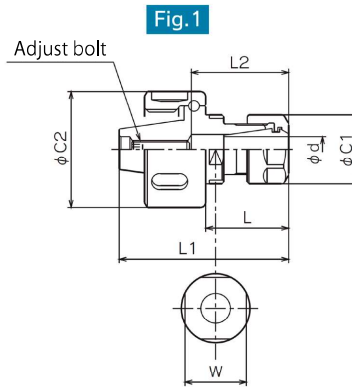
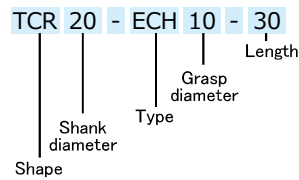
Reduce interference

Change the collet size

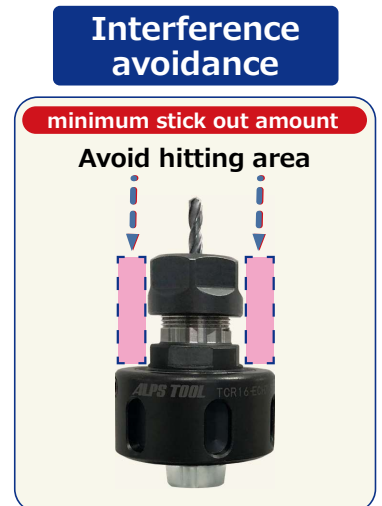
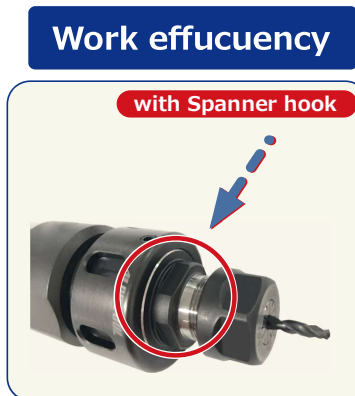
Easily to change the extension length



Form explanation



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



Collet Holder

Round Shank Holder without flattening

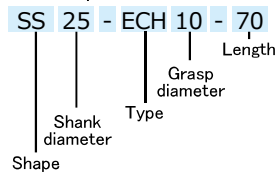
Holders with round shanks for machining centers, etc.

As an extension holder

Interference avoidance



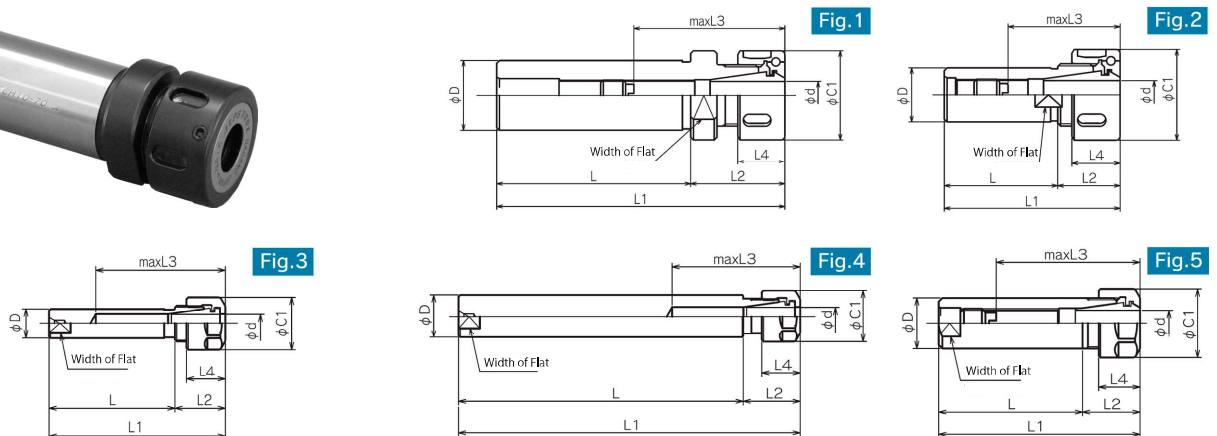
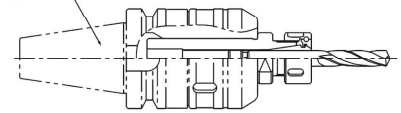
Form explanation



● Ex) when you use machining center

Holder, Type "R", "C" and "S"

BTO -ARHQ -O
BTO -TRXQ -O
BTO -ECHO -O



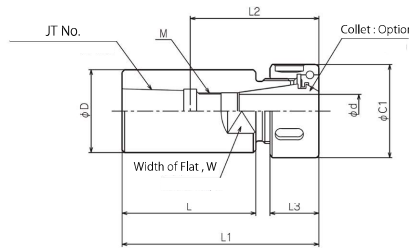
CODE	φ d	φ D	Fig.	L	L1	L2	Max L3	Nut size			W	Adjust bolt	Optional part					
								Code	φ C1	L4			Collet	Wrench				
SS 8 -ECH 5S- 35	0.3 - 5	8	3 ※ (5)	35	49	14	36 ※ (6)	NA8S	14.5	10.8	6	-	AR 8-d	SP-13				
SS12 -ECH 5S- 80		12		80	96	10												
SS14 -ECH 7S- 40		14		40	56	16					12							
SS16 -ECH 7 - 40	0.5 - 7	16	2	70	94	24	55	NA11S	23	11.5	14	ECH 7-05	AR11-d	FK-3				
-ECH 7 - 70											1				70	94	24	19
SS20 -ECH 7 - 45											20				45	61	16	45
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	25	2	150	185	35	75	NA20	36	19	27	ECH13-05	AR20-d	FK-5				
-ECH13 -200				200	235													
-ECH16 - 70				70	110													
-ECH16 -150	0.5 - 16	25	3	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	80	119	39
-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		67	NA25	43	20	36	ECH16-05	AR25-d	FK-6					
-ECH16 -150		150			190													
SS40 -ECH20 - 80		2 - 20			40									1	80	128	48	100
-ECH20 -110	110		158															
-ECH20 -200	200		248															
-ECH20 -300	300		348															

■ Remarks

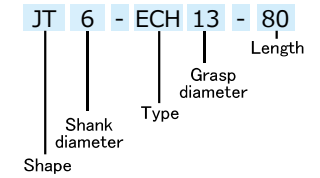
- (1) AR (ER) collet is not included with Collet holder. If you need an AR collet, please order separately.
- (2) Wrench is not included with Collet holder. If you need a wrench, please order separately.
- (3) Collet nut can be replaced with type "S" Nut when interference takes place.
- (4) Shanks other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

Jacobs Taper Holder

Use instead of keyless drill chuck (130-J6).



Form explanation



CODE	φ d	φ D	JT No.	L	L1	L2	M	Nut size			W	Optional part	
								Code	φ C1	L3		Collet	Nut Wrench
JT6-ECH13-80	0.5 - 13	32	JT6	52	77	50	M14 × 1.0	NA20	36	19	27	AR20-d	FK-5

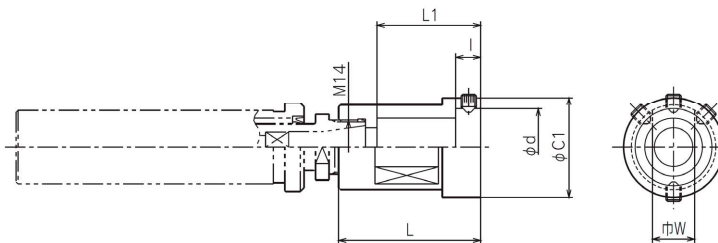
■ Remarks

- (1) Used in combination with a collet. Please order together.
- (2) Spanner is not included.
- (3) Can be used by chucking the outer diameter D.

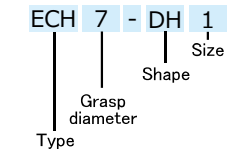
Die Holder

Die holder for die outer diameters φ 16 and φ 20.

It is used in combination with the tap holder SST □ □ -ECH7 main unit or a machine equipped with the synchronizing function.



Form explanation



CODE	φ d	l	L	L1	φ C1	W	Screw size
ECH 7-DH 1	16	4.8	32	22	20	9	M1 — M2.6
ECH 7-DH 2	20	6.5	27	27	26	11	M3 — M6

AR Collet Arrange Stand

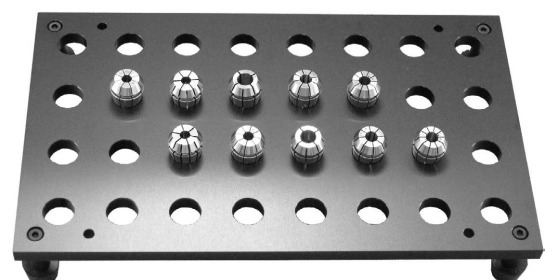
Compact aluminum arrange stand.

Best package for arrangement and manage of collet and piling up is possible.

CODE	Collet	Storing No.	Size of Stand
CS-11	AR11-d	45	150 × 250 × 50
CS-16	AR16-d	32	
CS-20	AR20-d	32	
CS-25	AR25-d	18	150 × 250 × 52
CS-32	AR32-d		

■ Remarks

- (1) Collet is not included.
- (2) It can not pile for CS-32



Dimension of Adjust Bolt

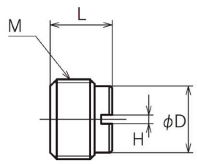


FIG.1

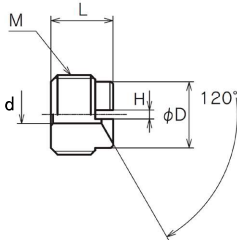


FIG.2

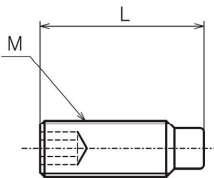


FIG.3

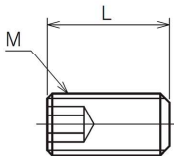


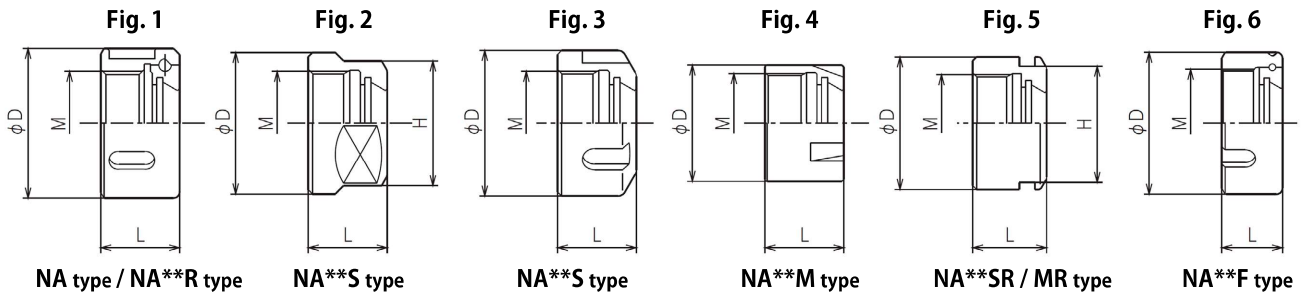
FIG.4

CODE	φD	L	φd	H	M	Fig.	JIS
ECH 7-05	6	10	-	1.5	M 8 × 1.0	1	
ECH10-05	8	12		M11 × 1.0			
ECH13-05	11	13		M14 × 1.0			
ECH16-05	15	14		M18 × 1.5			
ECH20-05	20	16		M24 × 1.5			
ECH 70H-05	6	10	3	1.5	M 8 × 1.0	2	
ECH100H-05	8	12	4	M11 × 1.0			
ECH130H-05	11	13	4	M14 × 1.0			
ECH160H-05	15	14	5	M18 × 1.5			
ECH200H-05	20	16	5	M24 × 1.5			
2S06035	-	35	-	-	M 6 × 1.0	3	JISB1177
2S10030		30			M10 × 1.5		
2S12035		35			M12 × 1.75		
4S05016		16			M 5 × 0.8	4	
4S06020		20			M 6 × 1.0		
4S10020					M10 × 1.5		
4S12020					M12 × 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								
16								
16R								
20								
20R								
25								
25R								
32								
32R								
40								
50								
NA 8S	2	14.5	10.8	M10 × 0.75	13	AR 8-d	-ECH5S	SP-13
11S								
11SR	5	19	11.5	M14 × 0.75	17	AR11-d	-ECH 7	SP-17A
16S	2	28	17	M22 × 1.5	25	AR16-d	-ECH10	SP-25
16SR	5							
20S	2	34	19	M25 × 1.5	30	AR20-d	-ECH13	SP-30
20SR	5							
25S	3	42	20	M32 × 1.5	-	AR25-d	-ECH16	FK-6
32S		50	23	M40 × 1.5		AR32-d	-ECH20	FK-7
NA 8M	4	12	10.8	M10 × 0.75	-	AR 8-d	-ECH5S	AE8M
11M		16	12	M13 × 0.75		AR11-d	AE11M	
16M		22	18	M19 × 1.0		AR16-d	AE16M	
20M		28	19	M24 × 1.0		AR20-d	AE20M	
NA 8MR	5	12	10.8	M10 × 0.75	11	AR 8-d	-	SP-11
11MR		16	12	M13 × 0.75	15	AR11-d		SP-15
16MR		22	18	M19 × 1.0	20	AR16-d		SP-20
NA 11F	6	23	11	M15 × 1.0	-	AR11-d	-	FK-3
16F		30	15	M22 × 1.0		AR16-d		FK-4
20F		35	17	M25 × 1.0		AR20-d		FK-5
25F		42	18	M32 × 1.0		AR25-d		FK-6
32F		50	19	M40 × 1.0		AR32-d		FK-8

■ 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.

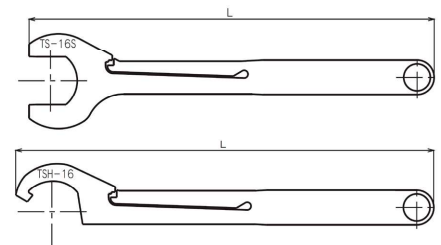
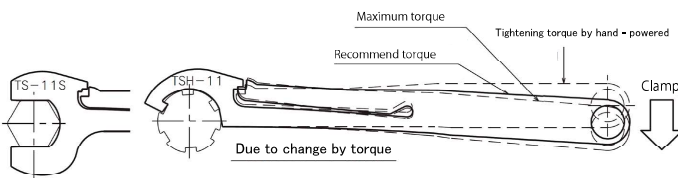
Torque Spanner PAT

Stable accuracy with torque control for nut tightening

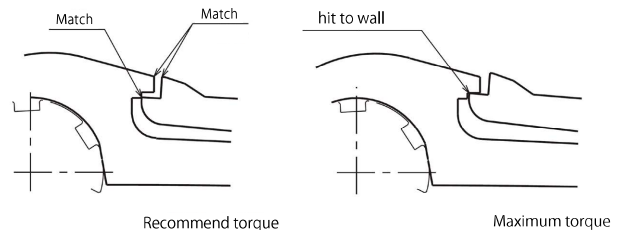
exclusively for NA Nut



Due to change by torque



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



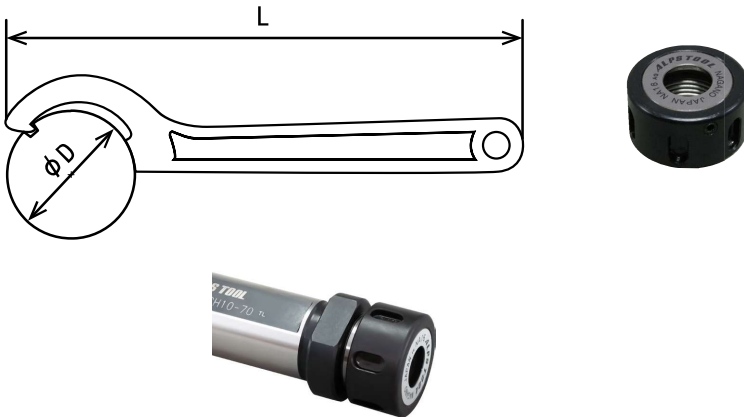
CODE	Nut Code	Recommend Torque	L(mm)	Auxiliary pipe Code
TSH-11	NA11	20 (15)	180	-
	NA11R			
	NA11F			
TS-11S	NA11S	170	170	-
	NA11SR			
TS-11MR	NA11MR	40 (30)	222	TSP-16
TSH-16	NA16			
	NA16R			
	NA16F			
TS-16S	NA16S	215	215	-
	NA16SR			
TS-16MR	NA16MR			

■ **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.

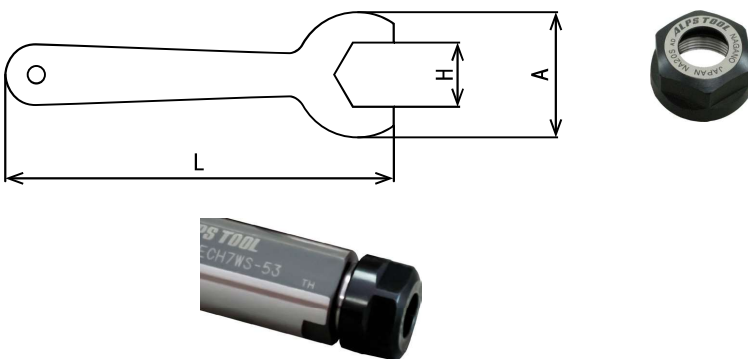
Various series of Wrench and spanner

Hook Wrench for NA Nut



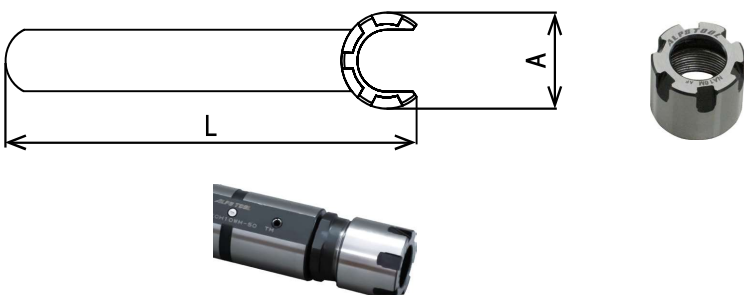
CODE	Nut Code	φ D	L
FK-3	NA11	23	108
	NA11R		
	NA11F		
FK-4	NA16	32	136
	NA16R	30	
	NA16F		
FK-5	NA20	36	160
	NA20R	35	
	NA20F		
FK-6	NA25	43	173
	NA25R	42	
	NA25F		
	NA25S		
FK-8	NA32	51	208
	NA32R	50	
	NA32F		
	NA32S		
FK-9	NA40	63	232
FK-11	NA50	80	271

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



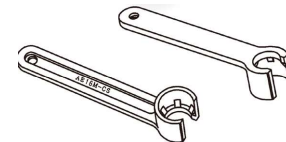
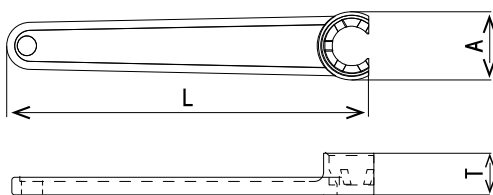
CODE	Nut Code	L	A
AE8M	NA 8 M	74	12.2
AE11M	NA11M	95	16.5
AE16M	NA16M	117	22.5
AE20M	NA20M	129	28.2



NA-M Wrench CS type

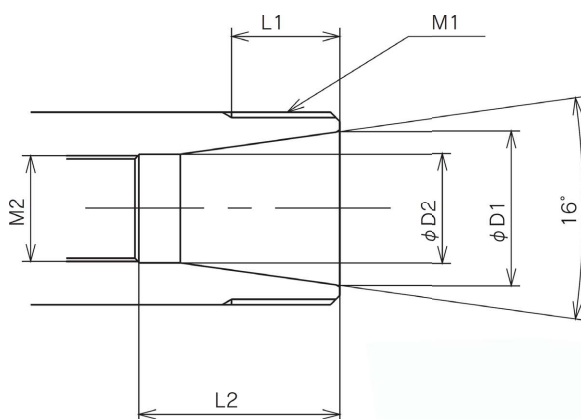
Grips nut securely and without rattle.

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



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