



# F3·F5

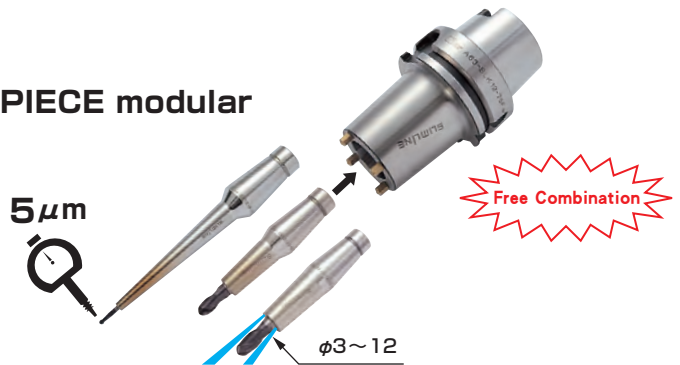
## HSK-A63 BT40 HSK-F63 TOOLING SYSTEM

SHRINK-FIT HOLDER **SLIMLINE**

**MONO Series**



**2PIECE modular**



**COLLET HOLDER**



**DETa-1 COLLET HOLDER**



**MST** corporation

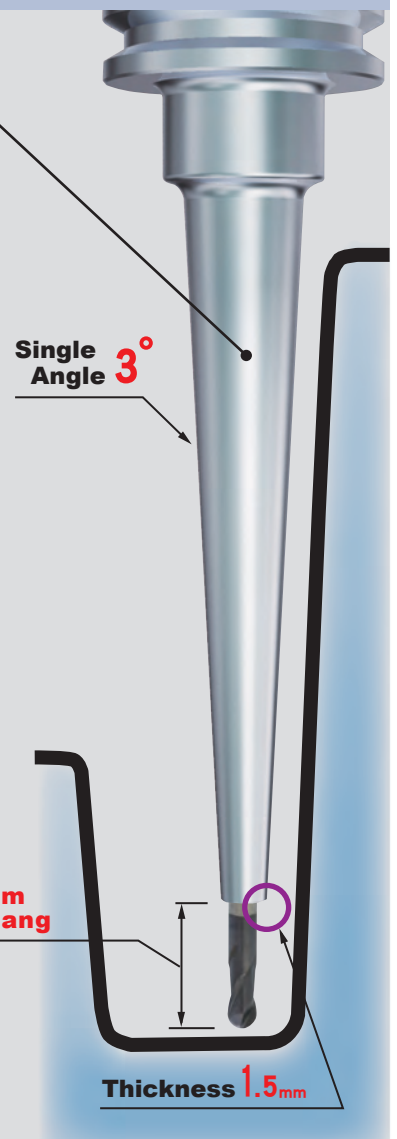


1004E

## SPECIAL MATERIAL

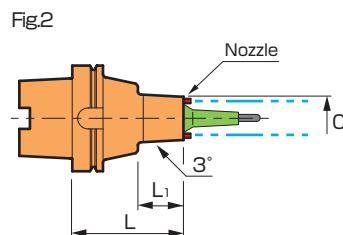
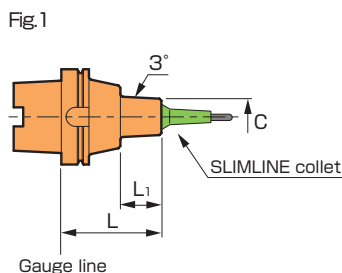
- Its thermal expansion coefficient is 1.6 times higher than that of regular steel.
- Shrink fitting and removing is achieved using a hot-air heater.
- Can be immersed in water to cool it off.
- Will not overheat even if heated for a long time.
- Ultra-thin 1.5 mm edge walls and sufficient variations of holder hapes.
- Available from dia. 3mm to dia. 25mm with just one nozzle.

**Required Carbide Cutter**  
( $\phi 3 \sim 5 \rightarrow h6$  /  $\phi 6 \sim 25 \rightarrow h7$ )  
Commercially cutting tools are available for dia. 3mm .



## 2PIECE modular

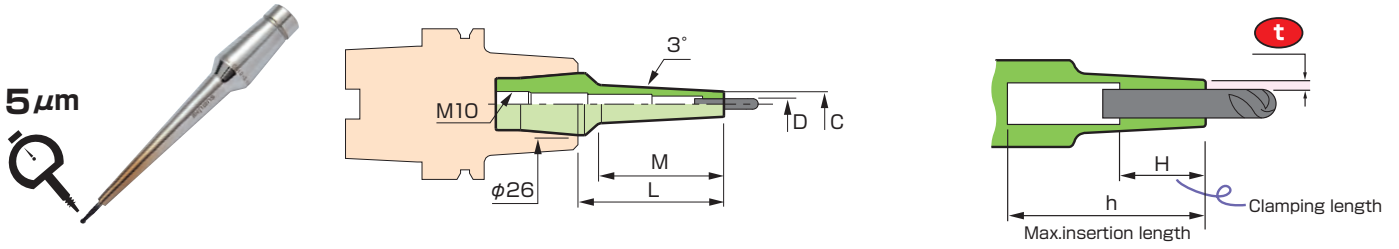
### Master holder



CODE	Fig.	L	$\phi C$	$L_1$	Kg
A 63-SLK12- 75	1	75	38	49	1.0
- 75F	2		41		1.1
-135	1	135	38	109	1.7
-135F	2		41		1.9
BT40-SLK12- 45	1	45	38	18	1.4
- 45F	2		41		1.6
- 75	1	75	38	48	
- 75F	2		41		1.8
-135F	2	135		108	3.2
F63M-SLK12- 75	1	75	38	49	3.4

- Options
- Standard accessories
- SLIMLINE collet
- Wrench
- Nozzle
- Retention knob(BT)
- Coolant duct(HSK-A)

# SLIMLINE collet

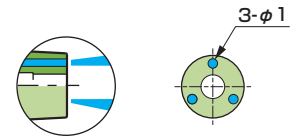


## Slim-type

CODE	φD	φC	t	L	M	H	h
CS12- 3- 35	3	6	1.5	35	22	10	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12-3-.175- 35	3.175	6.175	1.5	35	22	10	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12- 4- 35	4	7	1.5	35	22	12	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12- 5- 35	5	8	1.5	35	22	15	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12- 6- 35	6	9	1.5	35	22	18	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12- 7- 35	7	10	1.5	35	22	20	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12- 8- 35	8	11	1.5	35	22	25	65
- 55				55	42		85
- 80				80	67		110
-110				110	97		140
CS12- 9- 35	9	12	1.5	35	22	30	60
- 55				55	42		
- 80				80	67		
-110				110	97		
CS12-10- 35	10	13	1.5	35	22	30	60
- 55				55	42		
- 80				80	67		
-110				110	97		
CS12-11- 35	11	14	1.5	35	22	30	60
- 55				55	42		
- 80				80	67		
-110				110	97		
CS12-12- 35	12	15	1.5	35	22	30	60
- 55				55	42		
- 80				80	67		
-110				110	-		

## Regular-type

CODE	φD	φC	t	L	M	H	h
CR12- 3-35	3	7.5	2.25	35	22	10	65
-55				55	42		85
-80				80	67		110
CR12- 4-35	4	10	3	35	22	12	65
-55				55	42		85
-80				80	67		110
CR12- 6-35	6	12	3	35	22	18	65
-55				55	42		85
-80				80	67		110
CR12- 8-35	8	14	3	35	22	25	65
-55				55	42		85
-80				80	67		110
CR12-10-35	10	16	3	35	22	30	60
-55				55	42		
-80				80	67		
CR12-12-35	12	20	4	35	22	30	60
-55				55	42		
-80				80	-		



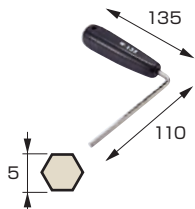
## Flush-type

CODE	φD	φC	t	L	M	H	h
CF12- 3-35	3	9.5	3.25	35	22	10	65
-55				55	42		85
-80				80	67		110
CF12- 4-35	4	12	4	35	22	12	65
-55				55	42		85
-80				80	67		110
CF12- 6-35	6	14	4	35	22	18	65
-55				55	42		85
-80				80	67		110
CF12- 8-35	8	16	4	35	22	25	65
-55				55	42		85
-80				80	67		110
CF12-10-35	10	18	4	35	22	30	60
-55				55	42		
-80				80	-		
CF12-12-35	12	20	4	35	22	30	60
-55				55	42		
-80				80	-		

## Wrench

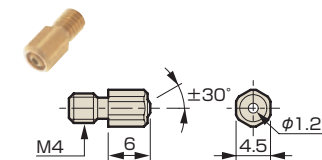
Required for clamping the main body and SLIMLINE collet.

CODE
W-135



## Nozzle

CODE	Q' ty
NOZ-M4-12	12
-60	60

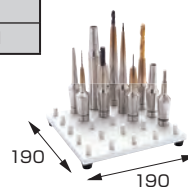


NOTE • Four nozzles are required for each master holder.

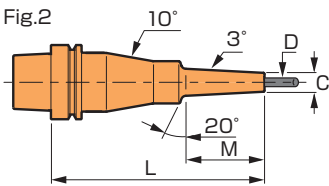
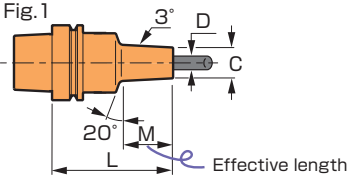
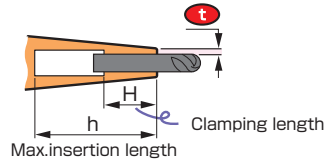
## Collet stand

For compact storage of SLIMLINE collets. Made of aluminum, assuring superior cooling for a maximum of 25 collets.

CODE
SDK-01



# MONOseries



■ Standard accessories    ● Coolant duct

**Available holder list for HEAT ROBO DENJI**  
 ○ : Available    × : Not available  
 ▲ : Set up the holder on the positioning plate directly. →P.9

CODE	Fig.	φD	φC	L	M	H	h	Kg	
A63-SLSA 3- 95-M 42	1	3	6	95	42	9	70	0.7	○
- 120-M 67				120	67		95	0.8	
- 125-M 42				125	42		100	0.9	
t=1.5 - 150-M 67				150	67		125		
-M 97					97			0.8	
- 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
-M 97	1				97			0.9	
- 210-M 97	2			210			185	1.2	
-SLRA 3- 75-M 22	1	3	7.5	75	22	9	50	0.7	
- 95-M 42				95	42		70	0.8	
- 105-M 22				105	22		80	0.9	
- 120-M 67				120	67		95	0.8	
- 125-M 42				125	42		100	0.9	
- 135-M 22	2			135	22		110	1.1	
- 150-M 67	1			150	67		125	0.9	
t=2.25 -M 97					97			0.8	
- 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
-M 97	1				97			0.9	
-M127					127			1.0	
- 210-M 97	2			210	97		185	1.2	
-M127	1				127				
- 240-M127	2			240			215	1.7	
-SLFB 3- 75-M 22	1	3	9.5	75	22	9	50	0.7	
- 95-M 42				95	42		70	0.8	
- 105-M 22				105	22		80	0.9	
- 120-M 67				120	67		95	0.8	
t=3.25 - 125-M 42				125	42		100	0.9	
- 135-M 22	2			135	22		110	1.2	
- 150-M 67	1			150	67		125	0.9	
- 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
A63-SLSA 4- 95-M 42	1	4	7	95	42	12	70	0.8	○
- 120-M 67				120	67		95		
- 125-M 42				125	42		100	0.9	
- 150-M 67				150	67		125		
-M 97					97			0.8	
t=1.5 - 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
-M 97	1				97			0.9	
- 210-M 97	2			210			185	1.2	

CODE	Fig.	φD	φC	L	M	H	h	Kg	
A63-SLRA 4- 75-M 22	1	4	10	75	22	12	50	0.7	○
- 95-M 42				95	42		70	0.8	
- 105-M 22				105	22		80	0.9	
- 120-M 67				120	67		95	0.8	
- 125-M 42				125	42		100	0.9	
- 135-M 22	2			135	22		110	1.2	
- 150-M 67	1			150	67		125	0.9	
-M 97					97				
t=3 - 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
-M 97	1				97			1.0	
-M127					127				
- 210-M 97	2			210	97		185	1.3	○
-M127	1				127			1.2	
- 240-M127	2			240			215	1.7	
-SLFB 4- 75-M 22	1	4	12	75	22	12	50	0.8	
- 95-M 42				95	42		70		
- 105-M 22				105	22		80	0.9	
- 120-M 67				120	67		95	0.8	
- 125-M 42				125	42		100	0.9	
t=4 - 135-M 22	2			135	22		110	1.2	
- 150-M 67	1			150	67		125	0.9	
- 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
A63-SLSA 6- 95-M 42	1	6	9	95	42	18	70	0.8	○
- 120-M 67				120	67		95		
- 125-M 42				125	42		100	0.9	
- 150-M 67				150	67		125		
-M 97					97				
t=1.5 - 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
-M 97	1				97			1.1	
- 210-M 97	2			210			185	1.6	
-SLSB 6- 95-M 42	1	6	10	95	42	18	70	0.8	
- 120-M 67				120	67		95		
- 125-M 42				125	42		100	0.9	
- 150-M 67				150	67		125		
-M 97					97				
- 155-M 42	2			155	42		130	1.2	
- 180-M 67				180	67		155		
-M 97	1				97			1.1	
-M127					127			1.0	
- 210-M 97	2			210	97		185	1.6	
-M127	1				127			1.2	
-M157					157			1.1	
- 240-M127	2			240	127		215	1.7	
-M157	1				157			1.3	
- 270-M157	2			270			245	1.8	▲
-SLRB 6- 75-M 22	1	6	14	75	22	18	50	0.8	○
- 95-M 42				95	42		70	0.9	
- 105-M 22				105	22		80	1.0	
- 120-M 67				120	67		95	0.9	
- 125-M 42				125	42		100	1.1	
t=4 - 135-M 22	2			135	22		110	1.6	
- 150-M 67	1			150	67		125	1.1	
- 155-M 42	2			155	42		130	1.6	
- 180-M 67				180	67		155		
-SLFB 6- 75-M 22	1	6	14	75	22	18	50	0.8	
- 95-M 42				95	42		70	0.9	
- 105-M 22				105	22		80	1.0	
- 120-M 67				120	67		95	0.9	
- 125-M 42				125	42		100	1.1	
t=4 - 135-M 22	2			135	22		110	1.6	
- 150-M 67	1			150	67		125	1.1	
- 155-M 42	2			155	42		130	1.6	
- 180-M 67				180	67		155		

CODE	Fig.	φD	φC	L	M	H	h	Kg		CODE	Fig.	φD	φC	L	M	H	h	Kg		
A63-SLSA 8- 95-M 42	1	8	11	95	42	24	70	0.8	○	A63-SLRB10- 75-M 22	1	10	22	75	22	30	48	0.9	×	
-120-M 67				120	67		95	0.9		- 95-M 42				95	42		68		○	
-125-M 42				125	42		100	1.0		-105-M 22				105	22		78	1.1	×	
-150-M 67				150	67		125	1.1		-120-M 67				120	67		93	1.0	○	
<b>t=1.5</b> -M 97					97			0.9		<b>t=6</b> -125-M 42				125	42		98	1.2		
-155-M 42	2			155	42		130	1.5		-135-M 22	2			135	22		108	1.6	×	
-180-M 67				180	67		155	1.6		-150-M 67	1			150	67		123	1.3	○	
-M 97	1				97			1.1		-155-M 42	2			155	42		128	1.7		
-210-M 97	2			210			185	1.6		-180-M 67	2			180	67		153	1.8		
-SLSB 8- 95-M 42	1	8	13	95	42	24	70	0.8		-SLFB10- 75-M 22	1	10	22	75	22	30	48	0.9	×	
-120-M 67				120	67		95	0.9		- 95-M 42				95	42		68		○	
-125-M 42				125	42		100	1.1		-105-M 22				105	22		78	1.1	×	
-150-M 67				150	67		125			-120-M 67				120	67		93	1.0	○	
-M 97					97			1.0		<b>t=6</b> -125-M 42				125	42		98	1.2		
-155-M 42	2			155	42		130	1.6		-135-M 22	2			135	22		108	1.6	×	
<b>t=2.5</b> -180-M 67				180	67		155			-150-M 67	1			150	67		123	1.3	○	
-M 97	1				97			1.2		-155-M 42	2			155	42		128	1.7		
-180-M127					127			1.1		-180-M 67	2			180	67		153	1.8		
-210-M 97	2			210	97		185	1.7		A63-SLSA12- 95-M 42	1	12	15	95	42	30	68	0.8	○	
-M127	1				127			1.3		<b>t=1.5</b> -120-M 67				120	67		93	0.9		
-M157					157			1.2		-125-M 42				125	42		98	1.0		
-240-M127	2			240	127		215	1.8	▲	-150-M 67				150	67		123	1.1		
-M157	1				157			1.4		-M 97					97					
-270-M157	2			270			245	1.9		-155-M 42	2			155	42		128	1.6		
-SLRB 8- 75-M 22	1	8	18	75	22	24	50	0.9	×	-180-M 67				180	67		153			
- 95-M 42				95	42		70		○	-M 97	1				97			1.3		
-105-M 22				105	22		80	1.1	×	-210-M 97	2			210			183	1.8	▲	
-120-M 67				120	67		95	1.0	○	-SLSB12- 95-M 42	1	12	19	95	42	30	68	0.9	○	
<b>t=5</b> -125-M 42				125	42		100	1.1		-120-M 67				120	67		93	1.0		
-135-M 22	2			135	22		110	1.6	×	-125-M 42				125	42		98	1.1		
-150-M 67	1			150	67		125	1.2	○	-150-M 67				150	67		123	1.2		
-155-M 42	2			155	42		130	1.6		-M 97	1				97					
-180-M 67				180	67		155	1.7		<b>t=3.5</b> -M127					127			153	1.4	
-SLFB 8- 75-M 22	1	8	18	75	22	24	50	0.9	×	-210-M 97				210	97		180	1.9	▲	
- 95-M 42				95	42		70		○	-M127					127					
-105-M 22				105	22		80	1.1	×	-M157					157			183	1.6	
-120-M 67				120	67		95	1.0	○	-240-M127				240	127		215	2.1		
<b>t=5</b> -125-M 42				125	42		100	1.1		-M157					157				1.9	
-135-M 22	2			135	22		110	1.6	×	-270-M157				270			245	2.2		
-150-M 67	1			150	67		125	1.2	○	-SLRB12- 75-M 22	1	12	26	75	22	30	48	1.0	×	
-155-M 42	2			155	42		130	1.6		- 95-M 42				95	42		68	1.1		
-180-M 67				180	67		155	1.7		-105-M 22				105	22		75	1.4		
A63-SLSA10- 95-M 42	1	10	13	95	42	30	68	0.8	○	-120-M 67				120	67		93	1.2		
-120-M 67				120	67		93	0.9		<b>t=7</b> -125-M 42				125	42		95	1.5		
-125-M 42				125	42		98	1.0		-135-M 22				135	22		105	1.7		
-150-M 67				150	67		123	1.1		-150-M 67				150	67		120			
-M 97					97			1.0		-155-M 42				155	42		125	1.8		
<b>t=1.5</b> -155-M 42	2			155	42		128	1.6		-180-M 67				180	67		150	1.9		
-180-M 67				180	67		153			-SLFB12- 75-M 22	1	12	26	75	22	30	48	1.0	×	
-M 97	1				97			1.2		- 95-M 42				95	42		68	1.1		
-210-M 97	2			210			183	1.7		-105-M 22				105	22		75	1.4		
-SLSB10- 95-M 42	1	10	16	95	42	30	68	0.9	○	-120-M 67				120	67		93	1.2		
-120-M 67				120	67		93			<b>t=7</b> -135-M 22				135	22		105	1.7		
-125-M 42				125	42		98	1.1		-150-M 67				150	67		120			
-150-M 67				150	67		123			-155-M 42				155	42		125	1.8		
-M 97					97			1.0		-180-M 67				180	67		150	1.9		
-155-M 42	2			155	42		128	1.6		-SLFB12- 75-M 22	1	12	26	75	22	30	48	1.0	×	
-180-M 67				180	67		153			- 95-M 42				95	42		68	1.1		
-M 97	1				97			1.2		-105-M 22				105	22		75	1.4		
<b>t=3</b> -M127					127			1.3		-120-M 67				120	67		93	1.2		
-210-M 97	2			210	97		180	1.7		<b>t=7</b> -125-M 42				125	42		95	1.5		
-M127	1				127			1.6		-135-M 22				135	22		105	1.7		
-M157					157			1.4		-150-M 67				150	67		120	1.6		
-240-M127				240	127		215	2.0	▲	-155-M 42				155	42		125	1.8		
-M157					157			1.8		-180-M 67				180	67		150	1.9		
-270-M157				270			245	2.1												

CODE	Fig.	φD	φC	L	M	H	h	Kg
A63-SLSB16- 95-M 42	1	16	24	95	42	32	68	1.1
-120-M 67				120	67		93	1.2
-125-M 42				125	42		95	1.4
-150-M 67				150	67		120	1.5
-M 97					97		123	1.3
-155-M 42				155	42		130	1.7
t=4 -180-M 67				180	67		155	1.8
-M 97					97			1.6
-M127					127		153	1.5
-210-M 97				210	97		185	2.0
-M127					127			1.8
-M157					157		183	1.7
-240-M127				240	127		215	2.2
-M157					157			2.1
-270-M157				270			245	2.4
-SLRB16- 75-M 22	1	16	32	75	22	32	48	1.1
- 95-M 42				95	42		68	1.2
-105-M 22				105	22		75	1.4
-120-M 67				120	67		93	
t=8 -125-M 42				125	42		95	1.6
-135-M 22				135	22		105	1.7
-150-M 67				150	67		120	
-155-M 42				155	42		125	1.9
-180-M 67				180	67		150	2.1
-SLFB16- 75-M 22	1	16	32	75	22	32	48	1.1
- 95-M 42				95	42		68	1.2
-105-M 22				105	22		75	1.4
-120-M 67				120	67		93	
t=8 -125-M 42				125	42		95	1.6
-135-M 22				135	22		105	1.7
-150-M 67				150	67		120	
-155-M 42				155	42		125	1.9
-180-M 67				180	67		150	2.1
A63-SLSB20- 95-M 42	1	20	29	95	42	40	68	1.1
-120-M 67				120	67		93	1.2
-125-M 42				125	42		95	1.4
-150-M 67				150	67		120	1.6
-M 97					97		123	1.4
-155-M 42				155	42		130	1.8
-180-M 67				180	67		155	1.9
t=4.5 -M 97					97			1.7
-M127					127		153	1.6
-210-M 97				210	97		185	2.1
-M127					127			2.0
-M157					157		183	1.9
-240-M127				240	127		215	2.3
-M157					157			2.2
-270-M157				270			245	2.6
-SLRB20- 95-M 42	1	20	38	95	42	40	68	1.3
-120-M 67				120	67		93	1.5
-125-M 42				125	42		95	1.6
t=9 -150-M 67				150	67		120	1.9
-155-M 42				155	42		125	2.0
-180-M 67				180	67		150	2.2
-SLFB20- 95-M 42	1	20	38	95	42	40	68	1.3
-120-M 67				120	67		93	1.5
-125-M 42				125	42		95	1.6
t=9 -150-M 67				150	67		120	1.9
-155-M 42				155	42		125	2.0
-180-M 67				180	67		150	2.2
A63-SLRB25- 95-M 42	1	25	45	95	42	45	68	1.4
t=10 -125-M 42				125			95	1.7
-155-M 42				155			125	2.0
-SLFB25- 95-M 42	1	25	45	95	42	45	68	1.4
t=10 -125-M 42				125			95	1.7
-155-M 42				155			125	2.0

**BT40**

3 μm



**SLFB**

Flush through

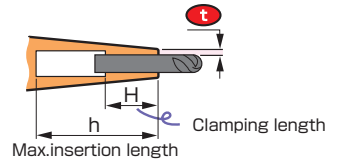


Fig.1

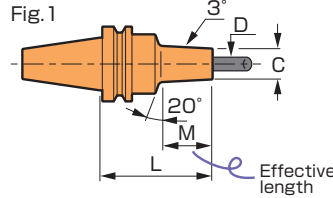
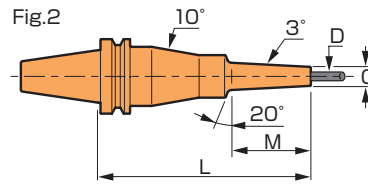


Fig.2



■ Options ● Retention knob

Available holder list for HEAT ROBO DENJI

○ : Available × : Not available  
▲ : Remove the positioning plate and raise the base of heater using a rest or something. →P.9

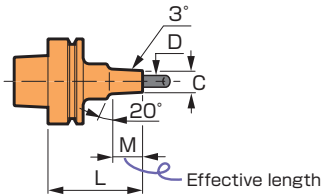
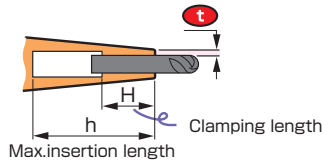
CODE	Fig.	φD	φC	L	M	H	h	Kg
BT40-SLSA 3- 95-M 42	1	3	6	95	42	9	130	1.0
-120-M 67				120	67		155	
-125-M 42				125	42		160	1.1
-150-M 67				150	67		185	
-M 97					97			
t=1.5 -155-M 42	2			155	42		190	1.4
-180-M 67				180	67		215	
-M 97	1				97			1.2
-210-M 97	2			210			245	1.4
-SLRA 3- 75-M 22	1	3	7.5	75	22	9	110	1.0
- 95-M 42				95	42		130	
-105-M 22				105	22		140	1.1
-120-M 67				120	67		155	1.0
-125-M 42				125	42		160	1.1
-135-M 22	2			135	22		170	1.4
-150-M 67	1			150	67		185	1.1
-M 97					97			
t=2.25 -155-M 42	2			155	42		190	1.4
-180-M 67				180	67		215	
-M 97	1				97			1.2
-M127					127			1.1
-210-M 97	2			210	97		245	1.5
-M127	1				127			1.3
-240-M127	2			240			275	1.8
-SLFB 3- 75-M 22	1	3	9.5	75	22	9	110	1.0
- 95-M 42				95	42		130	
-105-M 22				105	22		140	1.1
-120-M 67				120	67		155	
-125-M 42				125	42		160	
t=3.25 -135-M 22	2			135	22		170	1.4
-150-M 67	1			150	67		185	1.2
-155-M 42	2			155	42		190	1.4
-180-M 67				180	67		215	
BT40-SLSA 4- 95-M 42	1	4	7	95	42	12	130	1.0
-120-M 67				120	67		155	
-125-M 42				125	42		160	1.1
-150-M 67				150	67		185	
-M 97					97			
t=1.5 -155-M 42	2			155	42		190	1.4
-180-M 67				180	67		215	
-M 97	1				97			1.2
-210-M 97	2			210			245	1.4

CODE	Fig.	φD	φC	L	M	H	h	Kg	
BT40-SLRA 4- 75-M 22	1	4	10	75	22	12	110	1.0	○
- 95-M 42				95	42		130		
-105-M 22				105	22		140	1.1	
-120-M 67				120	67		155		
-125-M 42				125	42		160		
-135-M 22	2			135	22		170	1.4	
-150-M 67	1			150	67		185	1.2	
t=3 -M 97							97	1.1	
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215		
-M 97	1						97	1.2	
-M127							127	1.3	
-210-M 97	2			210	97		245	1.5	
-M127	1						127		
-240-M127	2			240			275	2.0	
-SLFB 4- 75-M 22	1	4	12	75	22	12	110	1.0	
- 95-M 42				95	42		130	1.1	
-105-M 22				105	22		140		
-120-M 67				120	67		155		
t=4 -125-M 42				125	42		160	1.2	
-135-M 22	2			135	22		170	1.4	
-150-M 67	1			150	67		185	1.2	
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215	1.5	
BT40-SLSA 6- 95-M 42	1	6	9	95	42	18	130	1.0	○
-120-M 67				120	67		155	1.1	
-125-M 42				125	42		160		
-150-M 67				150	67		185	1.2	
t=1.5 -M 97							97		
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215		
-M 97	1						97		
-210-M 97	2			210			245	1.9	
-SLSB 6- 95-M 42	1	6	10	95	42	18	130	1.0	
-120-M 67				120	67		155	1.1	
-125-M 42				125	42		160		
-150-M 67				150	67		185	1.2	
-M 97							97		
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215		
t=2 -M 97	1						97		
-M127							127	1.3	
-210-M 97	2			210	97		245	1.9	
-M127	1						127	1.5	
-M157							157	1.4	
-240-M127	2			240	127		275	2.0	
-M157	1						157	1.7	
-270-M157	2			270			305	2.1	▲
-SLRB 6- 75-M 22	1	6	14	75	22	18	110	1.1	○
- 95-M 42				95	42		130		
-105-M 22				105	22		140	1.3	
-120-M 67				120	67		155	1.2	
t=4 -125-M 42				125	42		160	1.3	
-135-M 22	2			135	22		170	1.8	
-150-M 67	1			150	67		185	1.4	
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215	1.9	
-SLFB 6- 75-M 22	1	6	14	75	22	18	110	1.1	
- 95-M 42				95	42		130		
-105-M 22				105	22		140	1.3	
-120-M 67				120	67		155	1.2	
t=4 -125-M 42				125	42		160	1.3	
-135-M 22	2			135	22		170	1.8	
-150-M 67	1			150	67		185	1.4	
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215	1.9	
BT40-SLSA 8- 95-M 42	1	8	11	95	42	24	130	1.1	○
-120-M 67				120	67		155		
-125-M 42				125	42		160	1.3	
-150-M 67				150	67		185		
t=1.5 -M 97							97	1.2	
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215		
-M 97	1						97	1.4	
-210-M 97	2			210			245	1.9	
-SLSB 8- 95-M 42	1	8	13	95	42	24	130	1.1	
-120-M 67				120	67		155		
-125-M 42				125	42		160	1.3	
-150-M 67				150	67		185	1.4	
-M 97							97	1.2	
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215		
t=2.5 -M 97	1						97	1.4	
-M127							127	1.3	
-210-M 97	2			210	97		245	1.9	
-M127	1						127	1.5	
-M157							157	1.4	
-240-M127	2			240	127		275	2.0	▲
-M157	1						157	1.7	
-270-M157	2			270			305	2.1	
-SLRB 8- 75-M 22	1	8	18	75	22	24	110	1.1	×
- 95-M 42				95	42		130	1.2	○
-105-M 22				105	22		140	1.3	×
-120-M 67				120	67		155	1.2	○
t=5 -125-M 42				125	42		160	1.4	
-135-M 22	2			135	22		170	1.8	×
-150-M 67	1			150	67		185	1.5	○
-155-M 42	2			155	42		190	1.9	
-180-M 67				180	67		215		
-SLFB 8- 75-M 22	1	8	18	75	22	24	110	1.1	×
- 95-M 42				95	42		130	1.2	○
-105-M 22				105	22		140	1.3	×
-120-M 67				120	67		155	1.2	○
t=5 -125-M 42				125	42		160	1.4	
-135-M 22	2			135	22		170	1.8	×
-150-M 67	1			150	67		185	1.5	○
-155-M 42	2			155	42		190	1.9	
-180-M 67				180	67		215		
BT40-SLSA10- 95-M 42	1	10	13	95	42	30	130	1.1	○
-120-M 67				120	67		155		
-125-M 42				125	42		160	1.3	
-150-M 67				150	67		185	1.4	
-M 97							97	1.2	
t=1.5 -155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215		
-M 97	1						97	1.5	
-210-M 97	2			210			245	1.9	
-SLSB10- 95-M 42	1	10	16	95	42	30	130	1.1	
-120-M 67				120	67		155	1.2	
-125-M 42				125	42		160	1.3	
-150-M 67				150	67		185	1.4	
-M 97							97	1.3	
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215	1.9	
t=3 -M 97	1						97	1.4	
-M127							127	1.5	
-210-M 97	2			210	97		245	1.9	
-M127	1						127	2.0	
-M157							157	1.6	
-240-M127	2			240	127		250	2.1	▲
-M157	1						157	1.8	
-270-M157	2			270			305	2.1	

CODE	Fig.	φD	φC	L	M	H	h	Kg	
BT40-SLRA 4- 75-M 22	1	4	10	75	22	12	110	1.0	○
- 95-M 42				95	42		130		
-105-M 22				105	22		140	1.1	
-120-M 67				120	67		155		
-125-M 42				125	42		160		
-135-M 22	2			135	22		170	1.4	
-150-M 67	1			150	67		185	1.2	
t=3 -M 97							97	1.1	
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215		
-M 97	1						97	1.2	
-M127							127	1.3	
-210-M 97	2			210	97		245	1.5	
-M127	1						127		
-240-M127	2			240			275	2.0	
-SLFB 4- 75-M 22	1	4	12	75	22	12	110	1.0	
- 95-M 42				95	42		130	1.1	
-105-M 22				105	22		140		
-120-M 67				120	67		155		
t=4 -125-M 42				125	42		160	1.2	
-135-M 22	2			135	22		170	1.4	
-150-M 67	1			150	67		185	1.2	
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215	1.5	
BT40-SLSA 6- 95-M 42	1	6	9	95	42	18	130	1.0	○
-120-M 67				120	67		155	1.1	
-125-M 42				125	42		160		
-150-M 67				150	67		185	1.2	
t=1.5 -M 97							97		
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215		
-M 97	1						97		
-210-M 97	2			210			245	1.9	
-SLSB 6- 95-M 42	1	6	10	95	42	18	130	1.0	
-120-M 67				120	67		155	1.1	
-125-M 42				125	42		160		
-150-M 67				150	67		185	1.2	
-M 97							97		
-155-M 42	2			155	42		190	1.4	
-180-M 67				180	67		215		
t=2 -M 97	1						97		
-M127							127	1.3	
-210-M 97	2			210	97		245	1.9	
-M127	1						127	1.5	
-M157							157	1.4	
-240-M127	2			240	127		275	2.0	
-M157	1						157	1.7	
-270-M157	2			270			305	2.1	▲
-SLRB 6- 75-M 22									

CODE	Fig.	φD	φC	L	M	H	h	Kg	
BT40-SLRB10- 75-M 22	1	10	22	75	22	30	110	1.1	×
- 95-M 42				95	42		130	1.2	○
-105-M 22				105	22		140	1.3	×
-120-M 67				120	67		155		○
t=6 -125-M 42				125	42		160	1.4	
-135-M 22	2			135	22		170	1.8	×
-150-M 67	1			150	67		185	1.5	○
-155-M 42	2			155	42		190	1.9	
-180-M 67				180	67		215	2.0	
-SLFB10- 75-M 22	1	10	22	75	22	30	110	1.1	×
- 95-M 42				95	42		130	1.2	○
-105-M 22				105	22		140	1.3	×
-120-M 67				120	67		155		○
t=6 -125-M 42				125	42		160	1.4	
-135-M 22	2			135	22		170	1.8	×
-150-M 67	1			150	67		185	1.5	○
-155-M 42	2			155	42		190	1.9	
-180-M 67				180	67		215	2.0	
BT40-SLSA12- 95-M 42	1	12	15	95	42	30	130	1.1	○
-120-M 67				120	67		155		
-125-M 42				125	42		160	1.3	
-150-M 67				150	67		185	1.4	
t=1.5 -M 97					97			1.2	
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215		
-M 97	1				97			1.4	
-210-M 97	2			210			245	1.9	
-SLSB12- 95-M 42	1	12	19	95	42	30	130	1.1	○
-120-M 67				120	67		155	1.2	
-125-M 42				125	42		160	1.4	
-150-M 67				150	67		185		
-M 97					97		160		
-155-M 42	2			155	42		190	1.8	
-180-M 67				180	67		215	1.9	
t=3.5 -M 97	1				97		190	1.7	
-M127					127			1.5	
-210-M 97				210	97		220	2.1	
-M127					127			1.9	
-M157					157			1.7	
-240-M127				240	127		250	2.2	▲
-M157					157			2.0	
-270-M157				270			280	2.4	
-SLRB12- 75-M 22	1	12	26	75	22	30	85	1.1	×
- 95-M 42				95	42		105	1.3	
-105-M 22				105	22		115	1.4	
-120-M 67				120	67		130		
-125-M 42				125	42		135	1.6	
t=7 -135-M 22				135	22		145	1.8	
-150-M 67				150	67		160	1.7	
-155-M 42				155	42		165	2.0	
-180-M 67				180	67		190	2.1	
-SLFB12- 75-M 22	1	12	26	75	22	30	85	1.1	
- 95-M 42				95	42		105	1.3	
-105-M 22				105	22		115	1.4	
-120-M 67				120	67		130		
-125-M 42				125	42		135	1.6	
t=7 -135-M 22				135	22		145	1.8	
-150-M 67				150	67		160	1.7	
-155-M 42				155	42		165	2.0	
-180-M 67				180	67		190	2.1	

CODE	Fig.	φD	φC	L	M	H	h	Kg	
BT40-SLSB16- 95-M 42	1	16	24	95	42	32	105	1.2	×
-120-M 67				120	67		130	1.3	
-125-M 42				125	42		135	1.6	
-150-M 67				150	67		160		
-M 97					97			1.5	
-155-M 42				155	42		165	1.9	
-180-M 67				180	67		190	2.0	
t=4 -M 97					97			1.8	
-M127					127			1.6	
-210-M 97				210	97		220	2.1	
-M127					127			2.0	
-M157					157			1.9	
-240-M127				240	127		250	2.3	
-M157					157			2.2	
-270-M157				270			280	2.5	
-SLRB16- 75-M 22	1	16	32	75	22	32	85	1.2	
- 95-M 42				95	42		105	1.4	
-105-M 22				105	22		115	1.6	
-120-M 67				120	67		130	1.5	
-125-M 42				125	42		135	1.7	
t=8 -135-M 22				135	22		145	1.9	
-150-M 67				150	67		160		
-155-M 42				155	42		165	2.0	
-180-M 67				180	67		190	2.2	
-SLFB16- 75-M 22	1	16	32	75	22	32	85	1.2	
- 95-M 42				95	42		105	1.4	
-105-M 22				105	22		115	1.6	
-120-M 67				120	67		130	1.5	
t=8 -125-M 42				125	42		135	1.7	
-135-M 22				135	22		145	1.9	
-150-M 67				150	67		160		
-155-M 42				155	42		165	2.0	
-180-M 67				180	67		190	2.2	
BT40-SLSB20- 95-M 42	1	20	29	95	42	40	105	1.2	
-120-M 67				120	67		130	1.4	
-125-M 42				125	42		135	1.6	
-150-M 67				150	67		160	1.7	
-M 97					97			1.5	
-155-M 42				155	42		165	1.9	
-180-M 67				180	67		190	2.0	
-M 97					97			2.0	
-M127					127			1.8	
t=4.5 -210-M 97				210	97		220	2.2	
-M127					127			2.1	
-M157					157			2.0	
-240-M127				240	127		250	2.4	
-M157					157				
-270-M157				270			280	2.7	
BT40-SLRB20- 95-M 42	1	20	38	95	42	40	105	1.4	
-120-M 67				120	67		130	1.7	
-125-M 42				125	42		135	1.8	
t=9 -150-M 67				150	67		160	2.0	
-155-M 42				155	42		165	2.1	
-180-M 67				180	67		190	2.3	
-SLFB20- 95-M 42	1	20	38	95	42	40	105	1.4	
-120-M 67				120	67		130	1.7	
-125-M 42				125	42		135	1.8	
t=9 -150-M 67				150	67		160	2.0	
-155-M 42				155	42		165	2.1	
-180-M 67				180	67		190	2.3	
BT40-SLRB25- 95-M 42	1	25	45	95	42	45	105	1.5	
t=10 -125-M 42				125			135	1.9	
-155-M 42				155			165	2.2	
-SLFB25- 95-M 42	1	25	45	95	42	45	105	1.5	
t=10 -125-M 42				125			135	1.9	
-155-M 42				155			165	2.2	



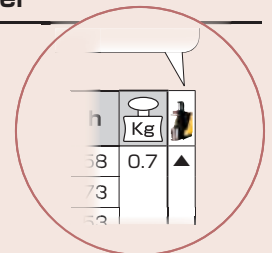
Available holder list for HEAT ROBO DENJI

○ : Available    × : Not available

CODE	φD	φC	t	L	M	H	h	Kg	
F63-SLSA 3- 75-M37	3	6	1.5	75	37	9	58	0.7	○
- 95-M42				95	42		73		
-SLRA 3- 70-M22	3	7.5	2.25	70	22	9	53	0.7	
- 95-M42				95	42		73		
-SLFB 3- 75-M22	3	9.5	3.25	75	22	9	53	0.7	
- 95-M42				95	42		73	0.8	
-120-M67				120	67		98		
F63-SLSA 4- 75-M37	4	7	1.5	75	37	12	58	0.7	○
- 95-M42				95	42		73		
-SLRA 4- 70-M22	4	10	3	70	22	12	53	0.7	
- 95-M42				95	42		73	0.8	
-SLFB 4- 75-M22	4	12	4	75	22	12	53	0.7	
- 95-M42				95	42		73	0.8	
-120-M67				120	67		98		
F63-SLSA 6- 75-M37	6	9	1.5	75	37	18	58	0.7	○
- 95-M42				95	42		73		
-SLSB 6- 95-M42	6	10	2	95	42	18	73	0.7	
-SLRA 6- 70-M22	6	12	3	70	22	18	53	0.7	
- 95-M42				95	42		73	0.8	
-SLFB 6- 75-M22	6	14	4	75	22	18	53	0.8	
F63-SLSA 8- 95-M42	8	11	1.5	95	42	24	73	0.7	○
-SLSB 8- 95-M42	8	13	2.5	95	42	24	73	0.8	
-SLRA 8- 70-M22	8	14	3	70	22	24	53	0.7	
- 95-M42				95	42		73	0.8	
-SLFB 8- 75-M22	8	18	5	75	22	24	53	0.8	×
F63-SLSA10- 95-M42	10	13	1.5	95	42	30	73	0.8	○
-SLSB10- 95-M42	10	16	3	95	42	30	73	0.8	
-SLRA10- 70-M22	10	16	3	70	22	30	53	0.7	
-SLFB10- 75-M22	10	22	6	75	22	30	53	0.8	×
F63-SLSA12- 95-M42	12	15	1.5	95	42	30	64	0.8	○
-SLSB12- 95-M42	12	19	3.5	95	42	30	73	0.8	
-SLRA12- 70-M22	12	20	4	70	22	30	53	0.8	
-SLFB12- 75-M22	12	26	7	75	22	30	53	0.9	×
F63-SLFB16- 75-M22	16	32	8	75	22	32	53	1.0	
F63-SLFB20- 75-M22	20	38	9	75	22	40	53	1.1	
F63-SLFB25- 75-M22	25	45	10	75	22	45	53	1.1	

How to set up the holder

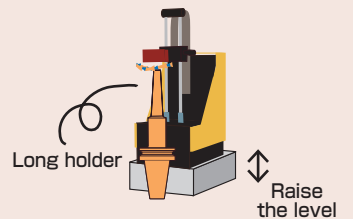
Some SLIMLINE holders cannot be heated due to its longer length than HRD-01. Confirm whether the holder is available or not. Please follow the operation below for the items marked "▲" in the list.



Code table

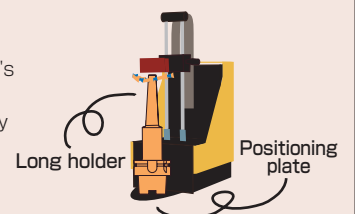
BT shank

Heating operation is impossible due to holder's longer length. Remove the positioning plate and raise the base of heater using a rest or something.



HSK shank

Heating operation is impossible due to holder's longer length. Set up the holder directly on the positioning plate without using base or adapter.



## Hot Air Heater

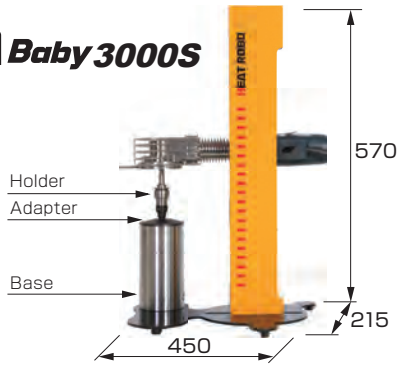
### HEAT ROBO *Baby 3000S*

φ3 ~ φ25

Heating 70sec.  
(φ6)

Air cooling  
10 min.

9Kg



CODE	Rated power consumption	CE
HRB-03S	AC200V - 3000W	—
-230NA*	AC230V - 3000W	—
-230EU*		○
-230AS*		—

\*NA = For America, EU = For Europe, AS = For Asia.  
Holder, adapter, and base in the picture are optional.

## Electromagnetic Induction Heater

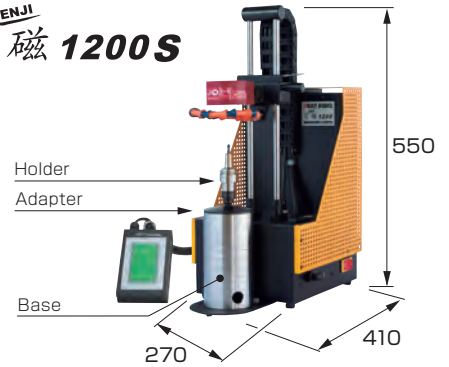
### HEAT ROBO <sup>DENJI</sup> 電磁 1200S

φ3 ~ φ12

Heating 18sec.  
(φ6)

Air cooling  
1 min.

13Kg



CODE	Rated power consumption	CE
HRD-01S	AC100V - 1200W	○

Holder, adapter, and base in the picture are optional.

## OPTIONS

### Adapter

CODE	Fig.	Holder type
ADH-40	1	MONO SERIES
-SLK	2	2PIECE modular SLIMLINE collet

Fig.1



Fig.2



### Base

CODE
BAA-01

Size: φ88×165



### Cutter tray

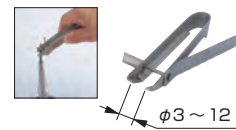
CODE
SDH-01

Size: 170×170



### Cutter pliers

CODE
HPY-01



### Stopper pliers

CODE	NOTE
SPY-01	For HSB

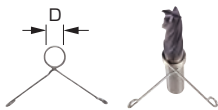


### Cutter stopper

#### HSA (Coil spring type)

CODE	φD	Q'ty
HSA-D	3, 3.175, 4, 5, 6, 8, 9, 10, 11, 12, 16, 20, 25	Contains 10 pcs. in each size
HSA-F	3, 4, 5, 6, 7, 8, 9, 10, 11, 12	10pcs. in total with each one
HSA-EF	3, 4, 5, 6, 8, 10, 12, 16, 20, 25	10pcs. in total with each one (in end-mill size increments)

Note: For HEAT ROBO Baby

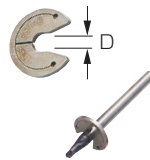


Ex. HSA-3

#### HSB (Plate spring type)

CODE	φD
HSB-D	3, 3.175, 4, 6, 8, 10, 12, 16, 20, 25

Ex. HSB-6

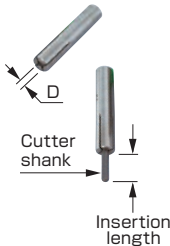


#### HSC (Slit collet type)

• Convenient for roumer type tools (non-inverse diameter tools) with a small diameter.

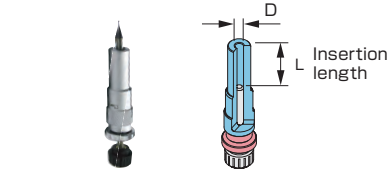
CODE	φD
HSC-D	3, 3.175, 4, 6

Ex. HSC-4



### Cutter adjuster

• Allows you to set the overhang of a cutting tool or align the lengths of several cutting tools.



CODE	φD	L
HAI-3	3	10 ~ 30
-3.175	3.175	
-4	4	13 ~ 30
-6	6	19 ~ 45
-8	8	25 ~ 55
-10	10	31 ~ 70
-12	12	31 ~ 85
-16	16	33 ~ 90
-20	20	41 ~ 100
-25	25	46 ~ 100

### Cleaning tool

#### Rubber grinding stone type



#### Rubber grinding stone

CODE	φd	Q'ty
CLT-GTA 3-5	3	5
4-5	4	
6-5	6	
8-5	8	
10-5	10	

#### Grip

CODE	Q'ty
CLT-GTA-GP	1

#### Brush type

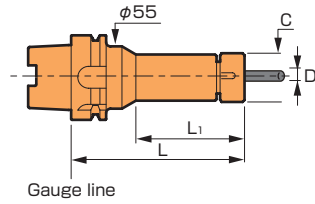


CODE	φd	Q'ty
AQC-BR-SET	3, 4, 6	Each 1 set

#### Standard set

CODE	Q'ty
CLT-GTA-01	Grip + Rubber grinding stone Each 1 set.

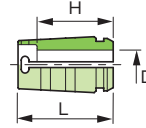
# COLLET HOLDER



CODE	$\phi D$	L	$\phi C$	$L_1$	Kg
<b>A63 -CTH10- 75</b>	2.4 ~ 10	75	36	49	0.9
-CTH20- 90	5.8 ~ 20	90	50	64	1.2
-CTH25- 105	5.8 ~ 25	105	62	79	1.6
<b>BT40-CTH10- 60</b>	2.4 ~ 10	60	36	33	1.1
-CTH20- 60	5.8 ~ 20		50		1.2
-CTH25- 75	5.8 ~ 25	75	62	48	1.5
<b>F63 -CTH10- 60</b>	2.4 ~ 10	60	36	34	0.9
-CTH20- 75	5.8 ~ 20	75	50	49	3.9

- Options      ● Spring collet   ● Spanner   ● Retention knob(BT)
- Standard accessories      ● Coolant duct(HSK-A)

## Spring collet Precision collet

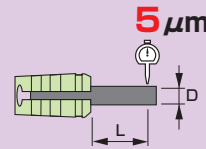


Ex.  $\phi D$  C10-6-P

CODE	$\phi D$	Collapsibility	L	H
<b>C10-D-P</b>	2.6 2.8 3 3.2 3.4 3.6 ...In 0.2mm steps...	0.2	26	16( $\phi D=2.6\sim 5$ ) 18( $\phi D=5.2\sim 5.8$ ) 20( $\phi D=6\sim 10$ )
	9 9.2 9.4 9.6 9.8 10			50
<b>C20-D-P</b>	6 6.2 6.4 6.6 6.8 ...In 0.2mm steps...		50	35( $\phi D=6\sim 8$ ) 46( $\phi D=10\sim 15$ ) 54( $\phi D=15.5\sim 20$ ) 57( $\phi D=20.5\sim 25$ )
	19.4 19.6 19.8 20			68
<b>C25-D-P</b>	6 8 10 10.5 11 11.5 12 ...In 0.5mm steps...		68	35( $\phi D=6\sim 8$ ) 46( $\phi D=10\sim 15$ ) 54( $\phi D=15.5\sim 20$ ) 57( $\phi D=20.5\sim 25$ )
	23 23.5 24 24.5 25			

## Run-out accuracy of Spring collet

※Accuracy of collet alone



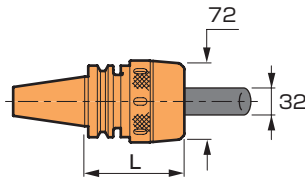
D	L
~10	4×D
10 ~20	40
20.5~25	60

## Spanner



CODE	Holder type
<b>FC-36</b>	CTH10
<b>-50</b>	CTH20
<b>-62</b>	CTH25

# Hi-ART MILLING CHUCK



CODE	L	Cutter insetion length	Kg	MAX. min <sup>-1</sup>
<b>BT40-ART32- 85</b>	85	90	1.9	6,000
- 95	95		2.1	
-105	105		2.3	
-135	135		3.0	

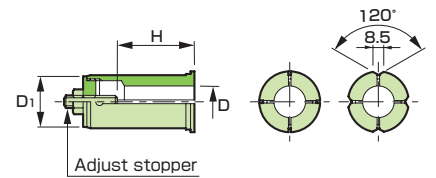
- Options      ● Straight collet   ● Spanner with ejection hook   ● Nozzle
- Adjust screw   ● Retention knob

## Straight collet

### Standard type



### F type



CODE		$\phi D$	$\phi D_1$	H
Standard type	F type	6	32	30~68
<b>S32- 6</b>	<b>S32- 6F</b>			
- 8	- 8F			40~68
-10	-10F			
-12	-12F			50~68
-16	-16F			
-20	-20F			
-25	-25F	25		

## Spanner with ejection hook

This spanner can be used to both tighten a nut and remove a straight collet.



CODE
<b>FM-72</b>



## Nozzle



CODE	Q'ty
<b>NOZ-M4-12</b>	12
<b>-60</b>	60

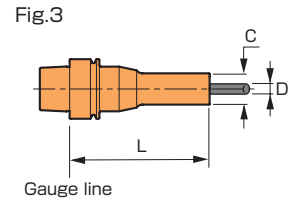
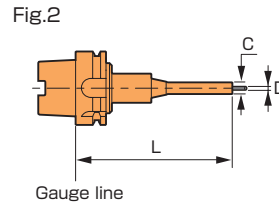
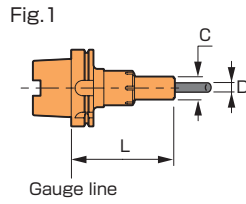
## Adjust screw

The overhang of the cutting tool can be adjusted.



CODE
<b>AJN-M18L</b>

# DETa-1 COLLET HOLDER



CODE	Fig.	φD	L	φC	Kg	
<b>A63 -DTA 3- 90</b>	1	0.5~ 3.175	90	10	0.8	D 3
<b>-DTA 7-105</b>		1 ~ 7	105	21	1.1	D 7
<b>-DTA12-120</b>		2.5~13	120	30	1.2	D12
<b>-DTB 3- 75</b>	2	0.5~ 3.175	75	10	0.8	D 3
<b>BT40-DTA 3- 95</b>	1	0.5~ 3.175	95	10	1.1	D 3
<b>-DTA 7-105</b>		1 ~ 7	105	21	1.3	D 7
<b>-DTA12-120</b>		2.5~13	120	30	1.5	D12
<b>-DTB 3- 80</b>	2	0.5~ 3.175	80	10	1.3	D 3
<b>-DTB 7- 60</b>		1 ~ 7	60	21	1.0	D 7
<b>-DTB12- 90</b>		2.5~13	90	30	1.2	D12
<b>F63 -DTA 3- 90</b>	1	0.5~ 3.175	90	10	0.8	D 3
<b>-DTB 3- 75</b>	2		75			
<b>F63M-DTB 7-100</b>	3	1 ~ 7	100	21	0.9	D 7
<b>-DTB12-120</b>		2.5~13	120	30	1.1	D12

- Options
  - DETa-1 Collet
  - Spanner·Wrench
  - Retention knob(BT)
  - Cleaning tool
- Standard accessories
  - Rod (DTA3)
  - Coolant duct(HSK-A)

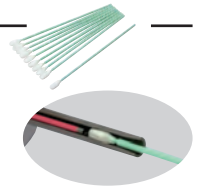
### Spanner·Wrench

CODE	Fig.	Holder type
<b>F - 22</b>	1	DTA 3
<b>- 38</b>	2	DTA 7
<b>- 45</b>		DTA12
<b>DW-2.5-110</b>	3	DTB 3



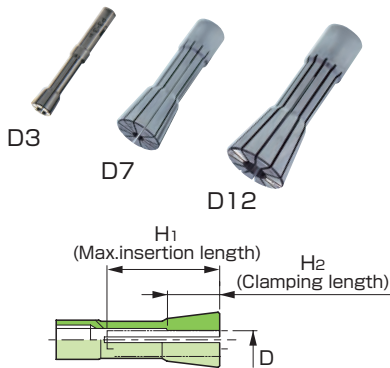
### Cleaning tool

CODE	Q'ty
<b>PCT01-10</b>	10
<b>-25</b>	25



•Used to clean the inside of holder.

### DETa-1 collet Precision collet

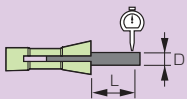


CODE	φD	H <sub>1</sub>	H <sub>2</sub>
<b>D 3- 0.6-P</b>	0.5 ~ 0.6	30	6.9
<b>- 0.8-P</b>	0.6 ~ 0.8		7.0
<b>- 1 -P</b>	0.8 ~ 1		7.2
<b>- 2 -P</b>	1 ~ 1.5		7.3
<b>- 2.5-P</b>	2 ~ 2.5		7.4
<b>- 3 -P</b>	2.5 ~ 3		7.5
<b>- 3.175-P</b>	2.7 ~ 3.175		7.6
<b>D 7- 1.5-P</b>	1 ~ 1.5	36	7
<b>- 2 -P</b>	1.5 ~ 2		10
<b>- 2.5-P</b>	2 ~ 2.5		12
<b>- 3 -P</b>	2.5 ~ 3		
<b>- 4 -P</b>	3 ~ 4		14
<b>- 5 -P</b>	4 ~ 5		16
<b>- 6 -P</b>	5 ~ 6		
<b>- 7 -P</b>	6 ~ 7		
<b>D12- 4 -P</b>	2.5 ~ 4	50	16
<b>- 6 -P</b>	4 ~ 6		20
<b>- 8 -P</b>	6 ~ 8		22
<b>-10 -P</b>	8 ~ 10		
<b>-12 -P</b>	10 ~ 12		
<b>-13 -P</b>	11 ~ 13		

### Run-out accuracy of DETa-1 collet

Collet	D3	D7/D12
Precision collet	3(8) μm	5(10) μm

※Accuracy of collet alone. (XX) means collapsibility usable.

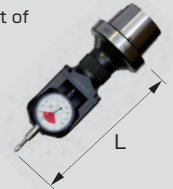


φD	L
~10	4×D
10~13	40

## PERIPHERAL Goo CHECKER

CODE	L	Kg
<b>A63 -ZPM-150</b>	150	1.2
<b>-210</b>	210	1.5
<b>BT40 -ZPM-150</b>	150	1.3
<b>-210</b>	210	1.5
<b>F63 -ZPM-150</b>	150	1.1
<b>-210</b>	210	1.3

•It set up the original point of work-piece in M/C.



## TOOL SET UP STAND

•It is used for attaching on vise.

CODE
<b>HF-A 63</b>
<b>-BT40</b>
<b>-F 63</b>

