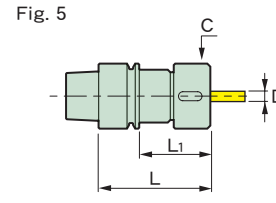
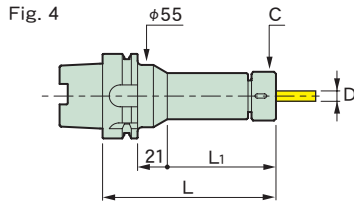
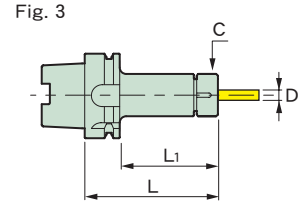
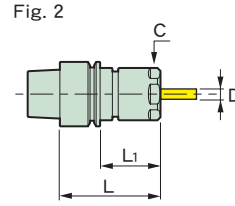
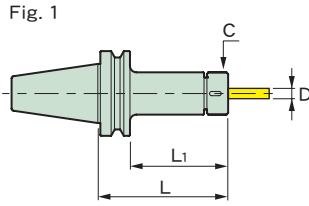
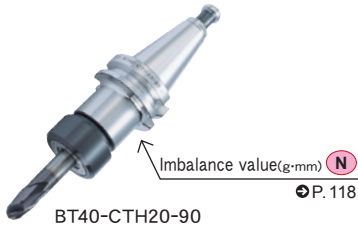




# COLLET HOLDER for high-speed (CTH)



CODE	Fig.	φD	L	φC	L <sub>1</sub>	kg	N
<b>BT30-CTH10- 45</b>	1	2.4~10	45	36	23	0.5	2.6
- 75			75		53	0.6	2.7
-CTH20- 60		5.8~20	60	50	38	0.9	4.3
- 90			90		68		4.7
<b>BT40-CTH10- 60</b>	1	2.4~10	60	36	33	1.1	3.8
- 90			90		63	1.3	4.0
-120			120		93	1.4	4.4
-150			150		123	1.6	4.6
-CTH20- 60		5.8~20	60	50	33	1.2	6.4
- 90			90		63	1.4	7.0
-120			120		93	1.7	7.3
-150			150		123	2.0	7.6
-CTH25- 75		5.8~25	75	62	48	1.5	8.9
-105			105		78	2.0	9.8
<b>BT50-CTH10-105</b>	1	2.4~10	105	36	67	3.8	5.3
-135			135		97	4.0	5.7
-165			165		127	4.1	6.1
-CTH20-105		5.8~20	105	50	67	4.2	8.3
-135			135		97	4.6	9.0
-165			165		127	4.9	9.4
-CTH25- 75		5.8~25	75	62	37	3.8	10.3
-105			105		67	4.4	11.0
-CTH32- 90		24.8~32	90	74	52	4.1	14.4
<b>A40 -CTH10- 55</b>		3	2.4~10	55	32	35	0.4
- 75	75			55		0.5	3.9
- 90	90			70		0.6	4.0
-CTH20- 75	5.8~20		75	50	55	0.7	7.3
- 90			90		70	0.8	7.0
-CTH25- 95	5.8~25		95	55	75	0.9	10.7
<b>A50 -CTH10- 55</b>	3	2.4~10	55	36	29	0.6	6.6
- 75			75		49	0.7	6.9
<b>A50M-CTH20- 80*</b>		5.8~20	80	50	54	0.9	10.2
-105*			105		79	1.2	11.1
-CTH25-105*			5.8~25		62	1.3	14.7

CODE	Fig.	φD	L	φC	L <sub>1</sub>		
<b>A63 -CTH10- 75</b>	3	2.4~10	75	36	49	0.9	10.2
- 90			90		64	1.0	10.4
-120			120		94	1.2	10.7
-150			150		124	1.4	11.0
<b>-CTH20- 90</b>		5.8~20	90	50	64	1.2	14.1
-120			120		94	1.5	14.0
-150			150		124	1.9	14.9
<b>-CTH25-105</b>		5.8~25	105	62	79	1.6	17.1
<b>A100-CTH10-135</b>	3	2.4~10	135	36	106	2.7	25.1
-165			165		136	2.9	25.4
-225			225		175	3.4	26.0
<b>-CTH20-135</b>	3	5.8~20	135	50	106	3.2	28.5
-165			165		136	3.6	29.5
-225			225		196	4.3	31.1
<b>-CTH25-135</b>	5.8~25	135	62	106	3.7	31.4	
-165		165		136	4.3	32.7	
-195		195		166	4.8	34.1	
<b>E32 -CTH10- 55</b>	5	2.4~10	55	32	35	0.2	1.2
<b>-CTS10- 50※</b>	2		50	26	30		0.9
<b>E40 -CTH10- 55</b>	5	2.4~10	55	32	34	0.4	1.4
<b>E50 -CTH10- 60</b>	5	2.4~10	60	36	34	0.7	2.1
- 90			90		64	0.9	2.3
<b>-CTH20- 75</b>		5.8~20	75	50	49		3.8
<b>F63 -CTH10- 60</b>	5	2.4~10	60	36	34	0.9	2.2
- 90			90		64	1.1	2.4
<b>-CTH20- 75</b>		5.8~20	75	50	49		3.9
<b>DN40AD-CTH20- 75</b>	1	5.8~20	75	50	56	1.1	5.4
-135			135		116	1.7	5.9
<b>-CTH25- 75※</b>		5.8~25	75	62	56	1.4	7.2
<b>DN50AD-CTH20-105</b>	1	5.8~20	105	50	70	3.6	9.1
-165			165		130	4.4	9.9
<b>-CTH25-105</b>		5.8~25	105	62	70	3.8	10.9

■ Option

- Spring collet(Precison collet)→P.38
- Spanner→P.38
- Adjust screw→P.37
- Retention knob (BT)→P.64
- Adjustable torque wrench→P.38
- Coolant screw→P.39
- Sukima nut→P.39
- Collet remover→P.38

■ Std. Access.

- Nut (NUA-CTH)→P.37
- Coolant duct(Fixed) (HSK-A)→P.104

■ Note

- Swing type coolant ducts are available upon request (HSK-A). For details, please contact us.
- Applicable for coolant-through methods →P.39
- Be sure to use precision-type spring collet.

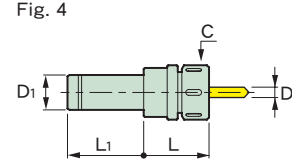
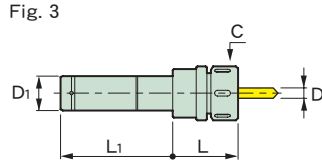
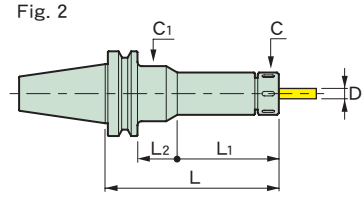
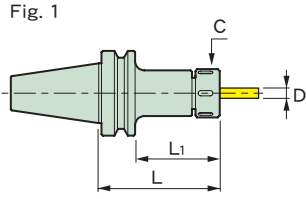
■ Caution

- ※ The undercut area of the A50M and DN40AD-CTH25 are different from the standards. Please be careful to check for interference with the ATC arm.
- ※CTS10 = Collapsibility cannot be used. The collet can only chuck a tool of the reference diameter.
- HSK-E and F shank don't come with a coolant duct and cannot be attached.
- For precautions and maintenance, refer to page 116.

DIN

DIN

# COLLET HOLDER(CTA)



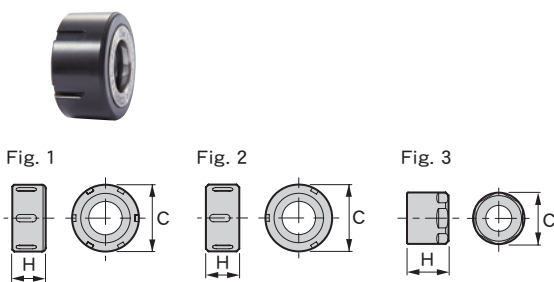
CODE	Fig.	$\phi D$	L	$\phi C$	L <sub>1</sub>	L <sub>2</sub>	$\phi C_1$	Kg
<b>BT30-CTA10- 45</b>	1	2.4~10	45	36	23	—	—	0.5
- 75			75		53			0.7
-105			105		83			0.9
<b>-CTA20- 60</b>	1	5.8~20	60	50	38	—	—	0.6
- 90			90		68			0.9
<b>BT40-CTA10- 60</b>	1	2.4~10	60	36	33	—	—	1.1
- 90			90		63			1.3
-120			120		93			1.5
-150			150		123			1.7
-180			180		153			1.9
-210			210		155			2.1
-CTA20- 60			1		5.8~20			60
- 90	90	63		1.4				
-120	120	93		1.7				
-150	150	123		2.1				
-180	180	153		2.5				
-210	210	183		2.9				
-CTA25- 75	1	5.8~25		75		62	48	—
-105			105	78	1.6			
-135			135	108	2.0			
<b>-CTA32-105</b>	1	24.8~32	105	74	78	—	—	1.8
<b>BT50-CTA10-105</b>	1	2.4~10	105	36	67	—	—	3.8
-135			135		97			3.9
-165			165		127			4.0
-195			195		157			4.2
-255			255		155			4.9
-315	315	122	5.8					
<b>-CTA20-105</b>	1	5.8~20	105	50	67	—	—	4.0
-135			135		97			4.4
-165			165		127			4.8
-195			195		157			5.2
-255			255		180			6.3
-315	315	97	7.7					
<b>-CTA25- 75</b>	1	5.8~25	75	62	37	—	—	3.6
-105			105		67			4.2
-135			135		97			4.8
-165			165		127			5.4
-195			195		157			6.0
-255			255		217			7.2
-315	315	225	8.7					
<b>-CTA32- 90</b>	1	24.8~32	90	74	52	—	—	4.0
-120			120		82			4.7
-150			150		112			5.4
-180			180		142			6.1
<b>-CTA40- 90</b>	1	31.8~42	90	90	52	—	—	4.0
-120			120		82			5.0

CODE	Fig.	φD	L	φC	L <sub>1</sub>	φD <sub>1</sub>	G	Kg (lbs)
<b>DN40AD-CTA20- 75</b>	1	5.8~20	75	50	56	—	—	1.1
<b>-135</b>			135		116			1.9
<b>-CTA25- 75</b>		5.8~25	75	62	56			1.7
<b>DN50AD-CTA20-105</b>	2	5.8~20	105	50	70	—	—	2.3
<b>-165</b>			165		130			3.0
<b>-CTA25-105</b>		5.8~25	105	62	70			2.9
<b>CT40 -CTA20- 75</b>	1	.23~.79	2.95	1.97	2.20	—	—	2.65
<b>-135</b>			5.31		4.57			3.75
<b>-CTA25- 75</b>		.23~.98	2.95	2.44	2.20			3.09
<b>CT50 -CTA20-105</b>	1	.23~.79	4.13	1.97	2.68	—	—	7.94
<b>-165</b>			6.50		5.12			9.70
<b>-CTA25-105</b>		.23~.98	4.13	2.44	2.68			8.60
<b>ST20T-CTA10</b>	3	2.4~10	35	36	110	20	—	—
<b>ST25T-CTA10</b>	3	2.4~10	35	36	110	25	—	—
<b>-CTA20</b>			60	50				
<b>ST32T-CTA10- 30</b>	3	2.4~10	30	36	100	32	—	—
<b>- 60</b>			60					
<b>- 90</b>			90					
<b>-120</b>			120					
<b>-CTA20- 60</b>		5.8~20	60	50				
<b>- 90</b>			90					
<b>-120</b>	120							
<b>ST42T-CTA25- 90</b>	3	5.8~25	90	62	110	42	—	—
<b>-120</b>			120					
<b>S 32 -CTA10</b>	4	2.4~10	30	36	70	32	—	—
<b>-CTA20</b>		5.8~20	60	50				
<b>S 42 -CTA10</b>	4	2.4~10	30	36	80	42	—	—
<b>-CTA20</b>		5.8~20	35	50				
<b>-CTA25</b>		5.8~25	80	62				

- **Option**
- Spring collet→P.38
  - Spanner→P.38
  - Retention knob(BT)→P.64
  - Adjustable torque wrench→P.38
- **Std. Access.**
- Nut(NUA-CTA)

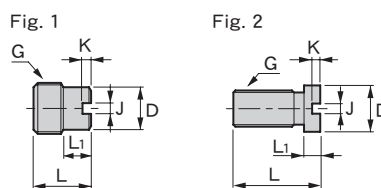
- **Note**
- Applicable for coolant-through methods. Please contact us for more information.
- **Caution**
- The undercut area of the DN40AD-CTA25 and CT40-CTA25 are different from the standard. Please be careful to check for interference with the ATC arm.
  - For precautions and maintenance, refer to page 116.

## Nut

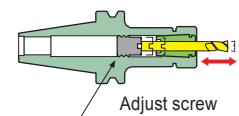


CODE	Fig.	φC	H	Holder type
<b>NUA-CTA10</b>	1	36	18	CTA10
<b>-CTA20</b>		50	25	CTA20
<b>-CTA25</b>		62	28.5	CTA25
<b>-CTA32</b>		74	32	CTA32
<b>-CTA40</b>		90	36	CTA40
<b>-CTH10</b>	2	36	18	CTH10
<b>-CTH20</b>		50	25	CTH20
<b>-CTH25</b>		62	28.5	CTH25
<b>-CTH25-55</b>		55		CTH25(A40)
<b>-CTH32</b>		74	32	CTH32
<b>-CTH10-32</b>	3	32	18	CTH10(A40, E32, E40)
<b>-CTS10</b>		26	21	CTS10

## Adjust screw



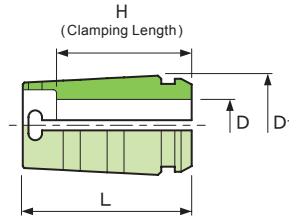
The overhang of the cutting tool can be adjusted.



CODE	Fig.	L	φD	L <sub>1</sub>	J	K	G	Holder type
<b>AJC-M14</b>	1	22	10	8	1.5	3	M14×1.5	CTA10
ST25T-CTA20								
<b>-M24</b>		27	20	13	5	4	M24×1.5	CTA20 (※1)
								BT40-CTA25- 75
<b>-M28</b>	24	15	8			M18×1.5	CTA25 (※2)	
<b>-M18</b>							BT30-CTA20 ,	
<b>-M18L</b>	2	43	23					BT50-CTA32 , CTA40

※1 : Except BT30, SE30M, ST25T and ST32T  
 ※2 : Except BT40-CTA25-75

# SPRING COLLET



CODE		φD	Holder type	Collapsibility	L	φD1	H
Standard Collet	Precision Collet						
C10-D		2.6 2.8 <b>3</b> 3.2 3.4 3.6 3.8 <b>4</b> 4.2 4.4	CTH10 CTA10 CTS10*	0.2	26	17.2	D=2.6~5(Except 3,4) → 16
		4.6 4.8 5 5.2 5.4 5.6 5.8 <b>6</b> 6.2 6.4					3, 4, 5.2 ~ 5.8 → 18
		6.6 6.8 7 7.2 7.4 7.6 7.8 <b>8</b> 8.2 8.4					6 ~ 10 → 20
		8.6 8.8 9 9.2 9.4 9.6 9.8 <b>10</b>					
C20-D	Add "-P" after the standard type item code.  ( Example ) C10 - 6 - P	6 6.2 6.4 6.6 6.8 7 7.2 7.4 7.6 7.8 <b>8</b>	CTH20 CTA20	0.2	50	29.5	D= 6 ~ 9.8 → 32
		8.2 8.4 8.6 8.8 9 9.2 9.4 9.6 9.8 <b>10</b>					10 ~ 15.8 → 35
		10.2 10.4 10.6 10.8 11 11.2 11.4 11.6					16 ~ 20 → 40
		11.8 <b>12</b> 12.2 12.4 12.6 12.8 13 13.2					
		13.4 13.6 13.8 14 14.2 14.4 14.6 14.8					
		15 15.2 15.4 15.6 15.8 <b>16</b> 16.2 16.4					
		16.6 16.8 17 17.2 17.4 17.6 17.8 18					
		18.2 18.4 18.6 18.8 19 19.2 19.4 19.6					
		19.8 <b>20</b>					
		C25-D					
14 14.5 15 15.5 <b>16</b> 16.5 17 17.5 18	10 ~ 15 → 48						
18.5 19 19.5 <b>20</b> 20.5 21 21.5 22 22.5	15.5~20 → 54						
C32-D		25 28 30 32	CTH32 CTA32	0.2	80	46	D=25 ~ 28 → 66
							30 ~ 32 → 68
C40-D		32 40 42	CTA40	0.2	80	56	D=32 ~ 40 → 65
							42 → 70

CODE	φD	Holder type	Collapsibility	L	φD1	H
C20-D	1/4 5/16 3/8	CTA20	.008	1.97	1.16	1.14
	7/16 1/2					1.30
	5/8 3/4					1.57
C25-D	1/4 5/16 3/8	CTA25	.008	2.67	1.44	1.38
	7/16 1/2					1.81
	5/8 3/4					2.12
	1IN					2.24

Ex. C10 - 6 - P

- Option
  - Collet remover
- Note
  - Please contact us if you need a size that is not mentioned above, and we will manufacture it for you (standard accuracy collets only).
- Caution
  - \*CTS10 = Collapsibility cannot be used. The collet can only chuck a tool of the reference diameter.

## Spanner · Wrench



CODE	Fig.	Holder type	R	L	Tightening torque(N·m)
FC-32	1	CTH10 (A40, E32, E40)	16	120	40~60
-36		CTA10, CTH10	18	208	
-50		CTA20, CTH20	25	281	120
-55		CTH25(A40)	27.5	284	150
-62		CTA25, CTH25	31	312	
-74		CTA32, CTH32	37	364	
-90	2	CTA40	45		
RC-26		CTS10	-	240	-

## Adjustable torque wrench

The nut-tightening torque can be adjusted more properly.

Spanner for torque wrench	Adjustable torque wrench	Holder type
FC-36AW	AW-1	CTA10, CTH10
-50AW	-2	CTA20, CTH20

## Spring collet standard set



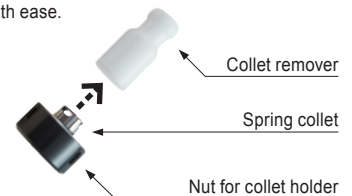
CODE	Collet inner diameter	Q'ty	Holder type
C10-Aset	3, 4, 5, 6, 8, 10	6pcs. (1ea.)	CTA10
C20-Aset	6, 8, 10, 12, 16, 20		CTA20
C25-Aset	6, 8, 10, 12, 16, 20, 25	7pcs. (1ea.)	CTA25

- Std. Access.
  - Collet remover (C10-A set)

## Collet remover

The collet can be attached/detached with ease.

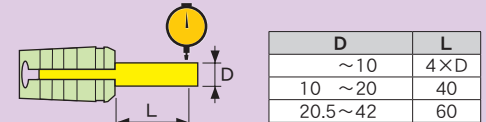
CODE	Holder type
C10-RM	C10
C20-RM	C20
CE-CTS10	CTS10



Highest guaranteed accuracies throughout entire chucking range(100% inspection)

Collet	Run-out accuracy (μm)
Precision Collet	<b>5</b>
Standard Collet	<b>10</b>

※Accuracy of collet alone



# COOLANT-THROUGH SYSTEM

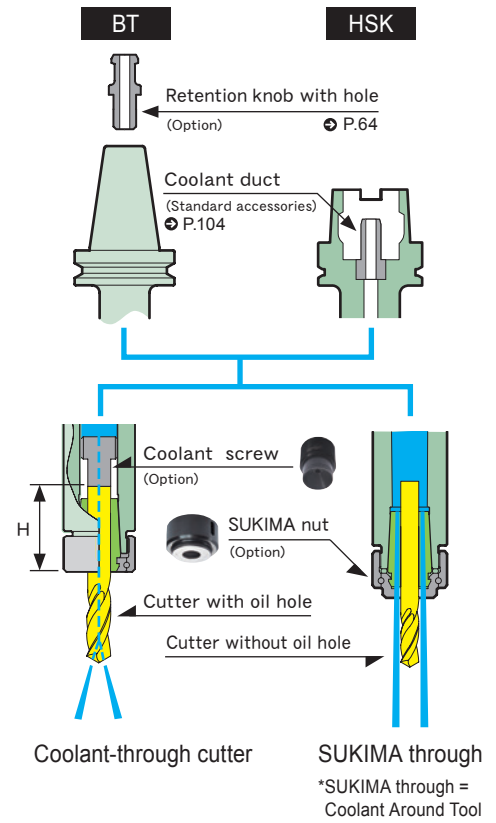
CODE	Retention knob with hole
BT30 -CTH10- 45	Model no. of retention knob depends on the machine model.
- 75	
-CTH20- 60	
- 90	
BT40 -CTH10- 60	
- 90	
-120	
-150	
-CTH20- 60	
- 90	
-120	
-150	
-CTH25- 75	
-105	
BT50 -CTH10-105	
-135	
-165	
-CTH20-105	
-135	
-165	
-CTH25- 75	
-105	
-CTH32- 90	
DN40AD-CTH20- 75	
-135	
-CTH25- 75	
DN50AD-CTH20-105	
-165	
-CTH25-105	

CODE	Coolant duct
A40 -CTH10- 55	CD 40-01
- 75	-03
- 90	
-CTH20- 75	
- 90	
-CTH25- 95	-04
A50 -CTH10- 55	CD 50-01
- 75	-03
-105	
-CTH25-105	
-105	
-CTH25-105	-04※2
A63 -CTH10- 75	CD 63-02
- 90	-01
-120	
-150	
-CTH20- 90	
-120	-03
-150	
-CTH20- 90	
-120	
-150	-04※2
-CTH25-105	-01
-150	-03
-CTH25-105	
-150	
-CTH25-105	
-CTH25-105	-04※2
A100 -CTH10-135	CD100-01
-165	-02
-225	
-CTH20-135	
-165	
-225	
-CTH20-135	
-165	
-225	
-CTH25-135	
-165	
-225	
-CTH25-135	
-165	
-225	
-CTH25-135	
-195	

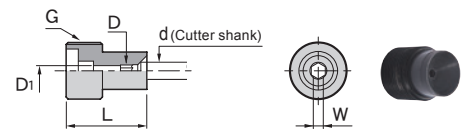
## Coolant-through cutter SUKIMA through

Coolant screw	H
CSA-M14	22~38
	22~68
※1	-
CSA-M14	22~54
	22~67
-M24S	44~54
-M24L	36~46
-M24S	44~79
-M24L	36~71
-M24S	44~83
-M24L	36~75
-M24S	44~89
-M24L	36~81
-M24S	61~73
-M24L	53~65
-M28	61~80
CSA-M14	22~49
	22~67
-M24S	44~81
-M24L	36~73
-M24S	44~89
-M24L	36~81
-M24S	44~89
-M24L	36~81
-M24S	61~79
-M28	61~89
	61~89
※1	-
CSA-M24S	44~ 69
-M24L	36~ 61
-M24S	44~ 89
-M24L	36~ 81
-M24S	61~ 73
-M24L	53~ 65
CSA-M24S	44~ 89
-M24L	36~ 81
-M24S	44~ 89
-M24L	36~ 81
-M28	61~ 90

SUKIMA nut
NUB-CTH10
-CTH20
NUB-CTH10
-CTH20
-CTH25
NUB-CTH10
-CTH20
-CTH25
-CTH32
NUB-CTH20
-CTH25
NUB-CTH20
-CTH20
-CTH25

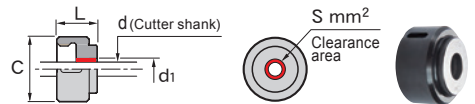


## Coolant screw



CODE	φD	φd	L	G	W
CSR-14	3	4~10	14	-	-
CP -14M		7~10	53	M14×1.5	3
CSA-M14	2.4	4~10	26		2
-M24S	7	10~20	30	M24×1.5	6
-M24L	3.4	6~12	38		3
-M28	6	10~25	40	M28×1.5	5

## SUKIMA nut



CODE	φC	L	φd	φd1	S
NUB-CTH10- 3.6	36	23	3	3.6	3.1
- 4.5			4	4.5	3.3
- 5.5			5	5.5	3.7
- 6.4			6	6.4	3.9
- 8.4			8	8.4	4.6
-10.3			10	10.3	4.8
-CTH20- 6.4	50	30	6	6.4	3.9
- 8.4			8	8.4	4.6
-10.3			10	10.3	4.8
-12.3			12	12.3	
-16.2			16	16.2	5.1
-20.2			20	20.2	5.7
-CTH25-20.2	62	34.5			
-25.2			25	25.2	5.9
-CTH32-25.2	74	38			
-32.1			32	32.1	6.0

### Note

- For information on the asterisked (※1) coolant screw for the coolant-through cutter capability, please contact MST.
- A coolant duct is built into every tooling holder. However, the coolant ducts marked with ※2 are optional.
- Applicable for CTA type too. Please contact us for more information.

### Caution

- Only the reference cutter size can be used.