

COLLET HOLDER for high-speed (CTH)



Fig. 1

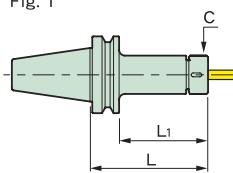


Fig. 2

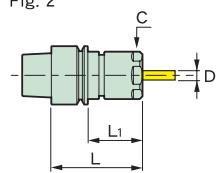


Fig. 3

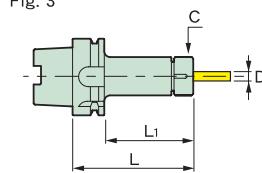


Fig. 4

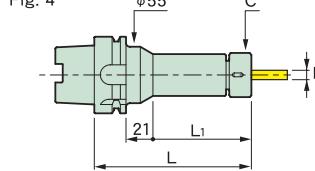
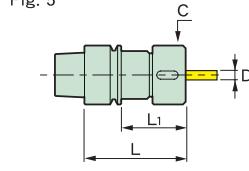


Fig. 5



| CODE | Fig. | ϕD | L | ϕC | L1 | | N |
|------------------------|------|----------|-----|----------|-----|------|------|
| BT30-CTH10- 45 | 1 | 2.4~10 | 45 | 36 | 23 | 0.5 | 2.6 |
| | | | 75 | | 53 | 0.6 | 2.7 |
| | | 5.8~20 | 60 | 50 | 38 | | 4.3 |
| | | | 90 | | 68 | 0.9 | 4.7 |
| BT40-CTH10- 60 | 1 | 2.4~10 | 60 | 36 | 33 | 1.1 | 3.8 |
| | | | 90 | | 63 | 1.3 | 4.0 |
| | | | 120 | | 93 | 1.4 | 4.4 |
| | | | 150 | | 123 | 1.6 | 4.6 |
| | | 5.8~20 | 60 | 50 | 33 | 1.2 | 6.4 |
| | | | 90 | | 63 | 1.4 | 7.0 |
| | | | 120 | | 93 | 1.7 | 7.3 |
| | | | 150 | | 123 | 2.0 | 7.6 |
| | | 5.8~25 | 75 | 62 | 48 | 1.5 | 8.9 |
| | | | 105 | | 78 | 2.0 | 9.8 |
| BT50-CTH10-105 | 1 | 2.4~10 | 105 | 36 | 67 | 3.8 | 5.3 |
| | | | 135 | | 97 | 4.0 | 5.7 |
| | | | 165 | | 127 | 4.1 | 6.1 |
| | | 5.8~20 | 105 | 50 | 67 | 4.2 | 8.3 |
| | | | 135 | | 97 | 4.6 | 9.0 |
| | | | 165 | | 127 | 4.9 | 9.4 |
| | | 5.8~25 | 75 | 62 | 37 | 3.8 | 10.3 |
| | | | 105 | | 67 | 4.4 | 11.0 |
| | | | 90 | 74 | 52 | 4.1 | 14.4 |
| A40 -CTH10- 55 | 3 | 2.4~10 | 55 | 32 | 35 | 0.4 | 3.6 |
| | | | 75 | | 55 | 0.5 | 3.9 |
| | | | 90 | | 70 | 0.6 | 4.0 |
| | | 5.8~20 | 75 | 50 | 55 | 0.7 | 7.3 |
| | | | 90 | | 70 | 0.8 | 7.0 |
| | | 5.8~25 | 95 | 55 | 75 | 0.9 | 10.7 |
| | | | | | | | |
| A50 -CTH10- 55 | 3 | 2.4~10 | 55 | 36 | 29 | 0.6 | 6.6 |
| | | | 75 | | 49 | 0.7 | 6.9 |
| | | 5.8~20 | 80 | 50 | 54 | 0.9 | 10.2 |
| | | | 105 | | 79 | 1.2 | 11.1 |
| A50M-CTH20- 80* | 3 | 5.8~25 | 62 | 62 | 1.3 | 14.7 | |
| | | | | | | | |
| -105** | | | | | | | |
| | | | | | | | |
| -CTH25-105** | | | | | | | |
| | | | | | | | |

| CODE | Fig. | φD | L | φC | L1 | Kg | N |
|-------------------------|--------|--------|-----|-----|-----|------|------|
| A63 -CTH10- 75 | 3 | 2.4~10 | 75 | 36 | 49 | 0.9 | 10.2 |
| | | | 90 | | 64 | 1.0 | 10.4 |
| | | | 120 | | 94 | 1.2 | 10.7 |
| | | | 150 | | 124 | 1.4 | 11.0 |
| | | 5.8~20 | 90 | 50 | 64 | 1.2 | 14.1 |
| | | | 120 | | 94 | 1.5 | 14.0 |
| | | | 150 | | 124 | 1.9 | 14.9 |
| | | 5.8~25 | 105 | 62 | 79 | 1.6 | 17.1 |
| | | 2.4~10 | 135 | 36 | 106 | 2.7 | 25.1 |
| | | | 165 | | 136 | 2.9 | 25.4 |
| A100-CTH10-135 | 3 | | 225 | | 175 | 3.4 | 26.0 |
| | 5.8~20 | 135 | 50 | 106 | 3.2 | 28.5 | |
| | | 165 | | 136 | 3.6 | 29.5 | |
| | | 225 | | 196 | 4.3 | 31.1 | |
| | 5.8~25 | 135 | 62 | 106 | 3.7 | 31.4 | |
| | | 165 | | 136 | 4.3 | 32.7 | |
| | | 195 | | 166 | 4.8 | 34.1 | |
| E32 -CTH10- 55 | 5 | 2.4~10 | 55 | 32 | 35 | 0.2 | 1.2 |
| | | | 50 | 26 | 30 | | 0.9 |
| E40 -CTH10- 55 | 5 | 2.4~10 | 55 | 32 | 34 | 0.4 | 1.4 |
| | | | 60 | 36 | 34 | 0.7 | 2.1 |
| E50 -CTH10- 60 | 5 | 2.4~10 | 90 | 36 | 64 | 0.9 | 2.3 |
| | | | 75 | | 49 | | 3.8 |
| | | 5.8~20 | 75 | 50 | 49 | | |
| F63 -CTH10- 60 | 5 | 2.4~10 | 60 | 36 | 34 | 0.9 | 2.2 |
| | | | 90 | | 64 | 1.1 | 2.4 |
| | | 5.8~20 | 75 | 50 | 49 | | 3.9 |
| DN40AD-CTH20- 75 | 1 | 5.8~20 | 75 | 50 | 56 | 1.1 | 5.4 |
| | | | 135 | | 116 | 1.7 | 5.9 |
| | | 5.8~25 | 75 | 62 | 56 | 1.4 | 7.2 |
| DN50AD-CTH20-105 | 1 | 5.8~20 | 105 | 50 | 70 | 3.6 | 9.1 |
| | | | 165 | | 130 | 4.4 | 9.9 |
| | | 5.8~25 | 105 | 62 | 70 | 3.8 | 10.9 |

■Option

- Spring collet(Precision 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.

Measuring Equipment

Maintenance Tool

Wire EDM fixture

Technical Information

ANGLE HEAD

COLLET HOLDER

M/C Tool

General Purpose Tool

JIG

35

COLLET HOLDER(CTA)



BT50-CTA20-135



ST32T-CTA20-90

Fig. 1

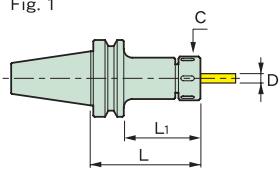


Fig. 2

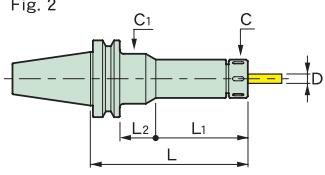


Fig. 3

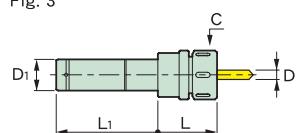
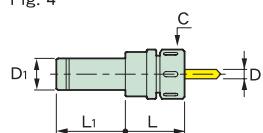


Fig. 4



| CODE | Fig. | ϕD | L | ϕC | L ₁ | L ₂ | ϕC_1 | Kg | | | | | | | |
|------------------------|------|----------|-----|----------|----------------|----------------|------------|-----|--|--|--|--|--|--|--|
| BT30-CTA10- 45 | 1 | 2.4~10 | 45 | 36 | 23 | — | — | 0.5 | | | | | | | |
| - 75 | | | | | | | | 0.7 | | | | | | | |
| -105 | | | | | | | | 0.9 | | | | | | | |
| 5.8~20 | | 60 | 50 | 38 | — | — | 0.6 | | | | | | | | |
| BT30-CTA20- 60 | | | | | | | | 0.9 | | | | | | | |
| - 90 | | 1.1 | | | | | | | | | | | | | |
| -120 | | 1.3 | | | | | | | | | | | | | |
| -150 | | 1.5 | | | | | | | | | | | | | |
| BT40-CTA10- 60 | 1 | 2.4~10 | 60 | 36 | 33 | — | — | 1.1 | | | | | | | |
| - 90 | | | | | | | | 1.3 | | | | | | | |
| -120 | | | | | | | | 1.5 | | | | | | | |
| -150 | | | | | | | | 1.7 | | | | | | | |
| BT40-CTA20- 60 | | | | | | | | 1.9 | | | | | | | |
| - 90 | | | | | | | | 2.1 | | | | | | | |
| -120 | | | | | | | | 1.1 | | | | | | | |
| -150 | | | | | | | | 1.4 | | | | | | | |
| BT40-CTA25- 75 | 1 | 5.8~20 | 60 | 50 | 33 | — | — | 1.7 | | | | | | | |
| - 90 | | | | | | | | 2.1 | | | | | | | |
| -120 | | | | | | | | 2.5 | | | | | | | |
| -150 | | | | | | | | 2.9 | | | | | | | |
| BT40-CTA32-105 | 2 | 5.8~25 | 75 | 62 | 48 | 28 | 44 | 1.2 | | | | | | | |
| - 90 | | | | | | | | 1.6 | | | | | | | |
| -120 | | | | | | | | 2.0 | | | | | | | |
| -150 | | | | | | | | 1.8 | | | | | | | |
| BT50-CTA10-105 | 1 | 2.4~10 | 105 | 36 | 67 | — | — | 3.8 | | | | | | | |
| - 135 | | | | | | | | 3.9 | | | | | | | |
| -165 | | | | | | | | 4.0 | | | | | | | |
| -195 | | | | | | | | 4.2 | | | | | | | |
| BT50-CTA20-105 | 2 | 5.8~20 | 255 | 155 | 62 | 55 | 4.9 | 4.9 | | | | | | | |
| - 135 | | | | | | | | 5.8 | | | | | | | |
| -165 | | | | | | | | — | | | | | | | |
| -195 | | | | | | | | — | | | | | | | |
| BT50-CTA25- 75 | 1 | 5.8~25 | 75 | 62 | 37 | — | — | 3.6 | | | | | | | |
| - 105 | | | | | | | | 4.2 | | | | | | | |
| -135 | | | | | | | | 4.8 | | | | | | | |
| -165 | | | | | | | | 5.2 | | | | | | | |
| BT50-CTA32-105 | 2 | 5.8~25 | 255 | 180 | 37 | 65 | 6.3 | 6.3 | | | | | | | |
| - 135 | | | | | | | | 7.7 | | | | | | | |
| -165 | | | | | | | | — | | | | | | | |
| -195 | | | | | | | | — | | | | | | | |
| BT50-CTA20-150 | 1 | 5.8~20 | 165 | 50 | 67 | — | — | 4.4 | | | | | | | |
| - 135 | | | | | | | | 4.8 | | | | | | | |
| -165 | | | | | | | | 5.2 | | | | | | | |
| -195 | | | | | | | | 5.6 | | | | | | | |
| BT50-CTA25- 135 | 2 | 5.8~25 | 195 | 62 | 97 | — | — | 6.0 | | | | | | | |
| - 135 | | | | | | | | 7.2 | | | | | | | |
| -165 | | | | | | | | 7.7 | | | | | | | |
| -195 | | | | | | | | — | | | | | | | |
| BT50-CTA32-150 | 1 | 24.8~32 | 195 | 74 | 225 | 52 | 70 | 8.7 | | | | | | | |
| - 135 | | | | | | | | — | | | | | | | |
| -165 | | | | | | | | — | | | | | | | |
| -195 | | | | | | | | — | | | | | | | |
| BT50-CTA40- 90 | 1 | 31.8~42 | 255 | 90 | 52 | — | — | 4.0 | | | | | | | |
| - 120 | | | | | | | | 4.7 | | | | | | | |
| -150 | | | | | | | | 5.4 | | | | | | | |
| -180 | | | | | | | | 6.1 | | | | | | | |
| BT50-CTA40- 120 | 2 | 31.8~42 | 315 | 120 | 82 | — | — | 5.0 | | | | | | | |
| -120 | | | | | | | | — | | | | | | | |