

3LOCK MBT MULTI LOCK MILLING CHUCK

NIKKEN



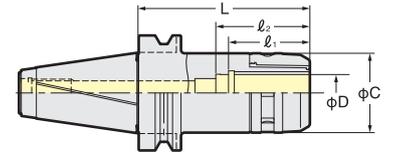
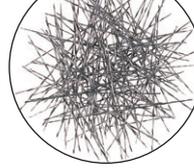
C
Centre Through
MAX. 7MPa

The cutting chips show us the actual machining capability.

Quiet,
high speed, heavy milling



Stable finishing



Standard

3LOCK tooling (MBT) can be used as the triple contact tooling on the M/C where spindle is BT double face contact system.

PAT.

| TAPER | Code No. | D | C | L | l ₁ | l ₂ | Weight (kg) | Collet |
|-------|--|----|----|-----------------------------------|----------------|-------------------------------|-------------------------------------|-------------------------|
| No.40 | MBT40-C12- 90,120 | 12 | 33 | 90, 120 | 48 | 58 | 1.6, 1.9 | (KM12) (CCK12) |
| | -C16- 60, 90,120 | 16 | 44 | 63, 90, 120 | 50 | 65 | 1.4, 1.7, 2.0 | (KM16) (CCK16) |
| | -C20- 70, 90,120 | 20 | 52 | 71, 90, 120 | 57 | 80 | 1.6, 1.8, 2.2 | (KM20) (CCK20) (CCNK20) |
| | -C25- 70, 90,120 | 25 | 60 | 70, 90, 120 | 60 | | 1.8, 2.1, 2.5 | (KM25) (CCK25) (CCNK25) |
| | -C32- 85*,105,120 | 32 | 69 | 85, 105, 120 | 64,70,70 | 75,81,81 | 2.1, 2.5, 2.8 | (KM32) (CCK32) (CCNK32) |
| No.50 | MBT50-C12-105,165 | 12 | 33 | 105, 165 | 48 | 58 | 4.0, 4.6 | (KM12) (CCK12) |
| | -C16-105,165,200 | 16 | 44 | 105, 165, 200 | 50 | 65 | 4.2, 4.8, 5.1 | (KM16) (CCK16) |
| | -C20-105,165,200 | 20 | 52 | | 57 | 80 | 4.5, 5.1, 5.7 | (KM20) (CCK20) (CCNK20) |
| | -C25-105,135,165 | 25 | 60 | 105, 135, 165 | 60 | | 4.8, 5.2, 5.6 | (KM25) (CCK25) (CCNK25) |
| | -C32- 90,105,120,135,165 -200,250,300 | 32 | 69 | 90,105,120,135,165 200,250,300 | 70 | 81 | 4.3,4.6,5.1,5.6,6.4 7.8,9.2,10.6 | (KM32) (CCK32) (CCNK32) |
| | -C42- 95*,120,135,165 -200,250,300 | 42 | 86 | 95,120,135,165 200,250,300 | 73 | 85,110,125,125 125,125,125 | 5.5,6.6,7.2,8.6 9.5,11.7,14.0 | (KM42) (CCK42) (CCNK42) |

*Spanner is available as an option.

C12 (φC=φ30) : 9HC12 C12A (φC=φ33) : 9HC12A C16 : 9HC16

C20 : 9HC22 C25 : 9HC25 C32 : 9HC32 C42 : 9HC42

*Please note the acceptable shank tolerance is h6~7.

*For heavy duty milling, please grip the cutter shank longer than l₁.

*NK and CCNK collet can not be used for the chucks marked *.

*For C32, l₂ dimension longer than standard is available.

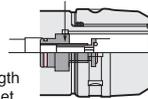
MBT40-C32D- 105 MBT50-C32D- 105

*Centre through tool coolant is available for all models. When the cutter shank length is shorter than l₁, please use the stopper for direct chucking or CCK/CCNK collet.

The Code No. of the Stopper for direct chucking is : C20 : 9MC20, C25 : 9MC25, C32 : 9MC32, C42 : 9MC42



Stopper for Direct Chucking



*Please refer P.142 for KM and CCK collet.

*Please add "F" for the flange through tool coolant type.

Explanation of the Code No.

MBT40 - C20 - 70

•Nominal Gauge Length

•Chucking Capacity

•Symbol of Milling Chuck

•Shank No.

3LOCK MBT HIGH SPEED MILLING CHUCK

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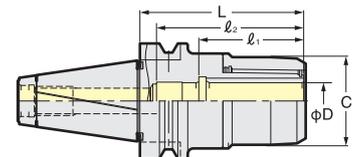


C-G
Centre Through
MAX. 7MPa

ANNIVERSARY Type

— Powerful gripping torque —

- High rigidity
- High precision
- Compact design



High Speed

3LOCK tooling (MBT) can be used as the triple contact tooling on the M/C where spindle is BT double face contact system.

PAT.

| TAPER | Code No. | D | C | L | l ₁ | l ₂ | Weight (kg) | MAX. (min ⁻¹) | Collet |
|-------|---------------------|----|----|------------|----------------|----------------|-------------------------|---------------------------|-------------------------|
| No.40 | MBT40-C12- 90G | 12 | 33 | 90 | 48 | 58 | 1.6 | 25,000 | (KM12) (CCK12) |
| | -C16- 60G, 90G | 16 | 40 | 63, 90 | 50 | 65 | 1.4, 1.7 | | (KM16) (CCK16) |
| | -C20- 70G, 90G | 20 | 48 | 71, 90 | 57 | 80 | 1.6, 1.8 | (KM20) (CCK20) (CCNK20) | |
| | -C25- 70G, 90G,120G | 25 | 55 | 70,90,120 | 60 | | 1.8, 2.1, 2.5 | (KM25) (CCK25) (CCNK25) | |
| | -C32- 85G*,105G | 32 | 68 | 85, 105 | 64,70 | 75,81 | 2.1, 2.5 | (KM32) (CCK32) (CCNK32) | |
| No.50 | MBT50-C12-105G | 12 | 33 | 105 | 48 | 58 | 4.0 | 20,000 | (KM12) (CCK12) |
| | -C16-105G | 16 | 40 | | 50 | 65 | 4.2 | | (KM16) (CCK16) |
| | -C20-105G | 20 | 48 | 57 | 80 | 4.5 | (KM20) (CCK20) (CCNK20) | | |
| | -C25-105G | 25 | 55 | 60 | | 4.8 | (KM25) (CCK25) (CCNK25) | | |
| | -C32- 90G,105G,120G | 32 | 68 | 90,105,120 | 70 | 81 | 4.3,4.6,5.1 | 15,000 | (KM32) (CCK32) (CCNK32) |
| | -C42- 95P*,120P | 42 | 86 | 95,120 | 73 | 85,110 | 5.5, 6.6 | 12,000 | (KM42) (CCK42) (CCNK42) |

*Please note the acceptable shank tolerance is h6.

*Please refer P.31 for KM and CCK collet.

*GH Handle is available as an option. P.30

C12G : GH12, C16G : GH16, C20G : GH20, C25G : GH25, C32G : GH32

*Spanner for C42P is 9HC42.

*NK and CCNK collet can not be used for the chucks marked *.

*Centre through tool coolant is available for all models. When the cutter shank length is shorter than l₁, please use the stopper for direct chucking or CCK/CCNK collet.

The Code No. of the Stopper for direct chucking is : C20 : 9MC20, C25 : 9MC25, C32 : 9MC32, C42 : 9MC42



Explanation of the Code No.

MBT40 - C20 - 70 G

•Symbol of High Speed

•Nominal Gauge Length

•Chucking Capacity

•Symbol of Milling Chuck

•Shank No.